

Shreyas S.

Clinical AI Evaluator

St. Louis, MO, United States | [LinkedIn](#)

UX researcher and human factors designer translating observed behavior into research insights, product decisions, and safer AI-enabled experiences. I combine clinical field experience, mixed-methods research, biomechanics coaching, and product prototyping to design adaptive, patient-centered systems.

EXPERIENCE

Clinical AI Evaluator

mpathic

Apr 2026 — Present

Seattle, Washington, United States

Evaluate conversational AI outputs for quality, safety, empathy, scope control, and user comprehension. Translate clinical communication patterns into human-in-the-loop feedback for safer AI system behavior.

Founder

Jan 2026 — Present

Practice Intuition

Practice Intuition began as a training philosophy as a biomechanics specialist & movement coach. Augmented by design language and human behavior, it evolved into an integrative framework at the intersection of the product development lifecycle & the human systems feedback loop. With a coherent and unified language, we can implement critical and factored systems.

Independently building a holistic coaching app - cognitive, biomechanical, behavioral systems integration. Through understanding the human experience as a set of control systems, I help individuals regulate, train, and express themselves. Learning is Unobstructed Self Expression.

2026 - Human-Systems Interaction Designer

- Founder of Practice Intuition

2025 - Human Factors + Mixed Methods Researcher

- Cognitive & Behavioral Analysis

2024 - Movement Coaching & Biomechanics Specialist

- NASM Certified, GOATA, Biomechanics Specialist

2023 - CodingDojo & AWS Certifications

- Software Developer + Cloud Infrastructure

- DCF Paper Submission for Practice Intuition (training)

2022 - Emergency Medical Technician & Patent Inventor

- Clinical Background & Biomedical Engineer

Qualitative Usability Researcher

Sep 2025 — Jan 2026

Nathan Sports

Remote

Designed and executed think-aloud usability studies evaluating mobile product discovery, conversion friction, purchase drivers, and retention levers. Identified 5 high-severity usability issues impacting 80% of test participants and developed psychographic segmentation model connecting cognitive traits, identity-based values, behavioral variables, and personas.

Lead Product Engineer

Sep 2025 — Dec 2025

NBME

Clinical Roleplay Simulator & Communication Solution

-- 0-to-1 Product Development: owned full product lifecycle from concept validation to shipped prototype: identified gap in market, designed lo-fi prototype (GPT-4o), conducted feasibility testing, delivered MVP

-- Architected modular, extensible conversational UI system integrating LLM-based agents, retrieval-augmented generation, & multimodal interaction capabilities (ASR, STT/TTS, video avatars)

-- Developed prompt engineering framework generating contextually grounded clinical scenarios and dynamic patient personas: fine-tuned the adaptive dialogue changes, turn-taking logic, context window

-- Designed psychologically grounded patient-personas encoding behavioral traits, cognitive patterns, and decision-making frameworks that AI agents replicate through state-based architecture

-- Constructed evaluative feedback for medical professionals and clinicians to develop patient-centered communication skills, including motivational interviewing protocols while maintaining clinical competency

Artificial Intelligence Researcher

Sep 2025 — Dec 2025

Bentley University - McCallum Graduate School of Business

Focused on 3 primary evidence-based AI-mediate tools: OpenEvidence, Consensus, Perplexity

- Designed, executed, and presented human-factors research study examining user trust, comprehension, & interaction patterns against AI-mediated outputs establishing accuracy benchmarks for trust calibration, response comprehension, & cognitive bias identification.

- Applied rigorous mixed-methods approach with variable operationalization (bias control, confound management) and quantitative statistical analysis (regression analysis, ANOVA, trust ratings)

- Identified critical trust calibration challenges: users struggle distinguishing AI synthesis vs. direct source citations, leading to overconfidence in generated answers.

Findings inform responsible AI product development: transparency mechanisms, confidence indicators, designing decision support systems

Multimodal Interaction Designer

Sep 2025 — Dec 2025

HapTrek

- Designed & prototyped HapTrek: a multimodal tool that addresses unmet needs for hikers: visual attention on trails can remain unperturbed with hiking tool that provides biofeedback & non-visual navigation support
- Fall Detection & other safety features implemented through multimodal sensory array: accelerometer (fall detection), environmental sensors, haptic actuator, audio buzzer, LEDs
- Built functional Arduino-based system and developed embedded code implementing real-time perception-action feedback loops: breathing regulation through haptics, fall detection emergency alert
- Iteratively tested interaction mappings with user walkthroughs, "field" debugging, and prototyping
- Graded haptic feedback to match specific-use cases, aligned with LEDs for immersive enhancement
- Aligned with functional analysis, prioritized usability requirements, and designed for accessibility needs

Lead Product Engineer

Sep 2025 — Dec 2025

NBME / BENTLEY

Remote

Designed and delivered an AI clinical roleplay simulator for patient-centered communication practice with scenario selection, text/voice interaction, transcript review, and feedback. Provided actionable formative feedback to 15 clinicians to improve communication quality. Built with React, TypeScript, conversational UX, LLM workflows, and ASR/TTS concepts.

Exercise Specialist

May 2024 — Jun 2025

Wellness Group

Redmond, Washington, United States

NASM CPT, CES, PES, BCS, CNC + GOATA

70+ patient interactions per week | Rehab, Return to Play, Performance

Motor Skills Acquisition, Development, & Functional Application

Swim Instructor

Dec 2023 — Dec 2025

YMCA of Greater Seattle

Bellevue, Washington, United States

Giving back to my community & working with a diverse range of populations.

Ecological Dynamics Approach to Coaching

- Constraints-Led-Approach - designing an environment for learning & adaptability
- Dynamic-Adaptation - providing an open-ended & nonlinear solution for unstructured problem
- Developing a "World Model" and "Intuitive Physics", based on 4E cognition model
- Play-based learning to generate reinforcement for self-organization, alignment, & execution
- Teaching motor control in fluid environments through visual, verbal, & tactile cues (vision-language-action)
- Teaching various individuals at their skill level - perceptually, biomechanically, psychologically
- Applied IQ (cognitive), EQ (emotional) & KQ (kinesthetic) integration in client coaching & design approach
- Longitudinal tracking for skill development, integrated with IQ, EQ, and KQ in design & training

Developed personal teaching methodology with great reviews from students, parents, & adults.

AI Implementation Strategist

Sep 2023 — Sep 2024

CC and C Solutions

Product Incubation for health-tech CUI solution [ChatEMT]

Chess Wizards Instructor

Aug 2023 — Jan 2024

Chess Wizards, Inc

Seattle, Washington, United States

Conduct 60-90 minute classes for students 2-5x weekly (K-5th grade) to teach & encourage playing chess at an extracurricular club - varying schools in the Lake Washington School District.

Full Stack Developer

Jun 2023 — Sep 2023

SPOTLIST Inc.

- First Service-Booking / On-Demand Mobile Application Startup in Cosmetology Industry
- Built RESTful APIs using Django framework, PostgreSQL, and semi-structured database development
- Developed mobile application w/ React Native and Expo Go, debugged with Chrome DevTools
- Implemented Unit Testing and Integration Testing with Jest and unittest Python library
- Initiated discussions for system design framework for improved microservices architecture
- Daily stand-up meetings and weekly retrospectives for Agile Development Process
- Development Environment in tandem with UX/UI and Data Engineering teams
- Presented software development and lifecycle reports to CEO and CTO
- Application launched to Cloud via AWS Elastic Beanstalk and Amazon RDS

Full Stack Software Developer

Jan 2023 — Dec 2023

Personal Projects

Seattle, Washington, United States

Full Stack Developer & Scrum Lead || DojoCommerce (3/23-4/23)

- Developed an eCommerce website with 2 fellow cohort members using MERN stack: ReactJS for intuitive and responsive dynamic webpages, MongoDB for its flexible document schemas and cloud-based access with Mongo Atlas, and Express to access APIs with greater ease and employ RESTful routing
- Collaborated via Git to practice CI/CD for various feature deployments and bug fixes throughout project week
- Facilitated development process as Scrum Leader, ensuring team followed Agile methodologies with daily standups, sprint

reviews, and retrospectives to keep track of project progress
9/2023 - AWS Cloud Practitioner
12/2023 - AWS Developer Associate (DVA-C02)

Health and well-being

Dec 2022 — Jun 2023

Career Break

Experienced an overuse / stress injury in my right elbow, which led to radial / ulnar neuropathy. Managed my physical rehab while participating in Coding Dojo's Full Time Software Development program from January through April. Difficult to tackle coding while occasionally one-handed - I could still type, but no longer than 20-30 minutes at a time with my right hand and required breaks of equal duration.

Shoutout to Conor Harris and Neal Hallinan, their videos helped the most with addressing my postural imbalances and how to recover without falling into bad biomechanical patterns. It has inspired me to find ways to help other people with injuries that can be solved through postural interventions or structural integration.

Emergency Medical Technician

Aug 2021 — Dec 2022

Northwest Ambulance Critical Care Transport

Seattle, Washington, United States

BLS/CPR/AED Certified. Aided with field training and onboarding of new EMTs. Performed interfacility transport and 911 Emergency Response. Administered emergency aid and first aid in and around King County, Snohomish County, and Pierce County.

40+ patient interactions per week

- Role ended 12/22 due to radial / ulnar neuropathy requiring physical + occupational rehab.

Clinician-to-Product Design Context

Jan 2021 — Jan 2025

NWA / WELLNESS GROUP / CC&C SOLUTIONS

Remote

Served as Emergency Medical Technician with 40+ weekly patient interactions across 911 trauma and interfacility transport, practicing needs-based assessment, advocacy, and communication under uncertainty. As Human Performance Specialist, applied biomechanics, motor learning, and behavior change across 40+ weekly patient interactions as rehab trainer. Designed ChatEMT, a conversational mobile app concept for structured intake, follow-up questions, and EMS-oriented handoff summaries.

Brand / Digital Marketing Consultant

Oct 2020 — Jul 2021

CareerNext.me

- Accelerated customer acquisition with improved copy and intuitive website design
- Co-created brand voice, positioning, and messaging with the founder
- Evaluated and configured email marketing tools and social channels

Tools: ConvertKit, MailChimp, Canva

COVID Medical Screener

Mar 2020 — Feb 2021

Aerotek

Greater Seattle Area

- Conducted medical screenings and questionnaire for employees and visitors
- Regulated and enforced Covid-19 workplace requirements for inbound and existing employees
- HIPAA and EHR training for patient confidentiality and medical ethics standards

Growth Marketing Intern

Oct 2018 — Dec 2018

RippleMatch

- Increased customer acquisition and brand affinity with creation of unique memes
- Increased user retention by 20% by resolving customer feedback and improving website UX flow
- Expanded acquisition channels with outreach efforts and networking with diverse student organization
- Leveraged growth strategies to grow awareness and user base at Rensselaer Polytechnic Institute
- Actively aided onboarding process for new consumers to ensure customer success
- Selected from a pool of thousands to work closely with RippleMatch's Marketing Team
- Helping to assess and design (new) growth strategies

UX Intern

May 2018 — Aug 2018

Praxik LLC

Greater Minneapolis-St. Paul Area

- 0-to-1 design & development in a team of 4 for the Science Museum of Minnesota's Paleontology Exhibit
- Delivered DinosAR Egg Hunt & Exploration for iOS & iPadOS in 12 weeks with no prior dev experience
- Conducted observational studies & qualitative research in museum; user studies independently

Marketing Campaign Creator

Sep 2017 — Sep 2018

Hands4Others

- Increased customer acquisition and brand affinity with creation of unique memes
- Increased user retention by resolving customer feedback and improving website UX flow
- Expanded acquisition channels with outreach efforts and networking with diverse student organization
- Leveraged growth strategies to grow awareness and user base at Rensselaer Polytechnic Institute
- Actively aided onboarding process for new consumers to ensure customer success

Field Service Technician

Jun 2017 — Aug 2017

Sammamish Plateau Water

Sammamish, Washington, United States

Prosthetic Design Capstone Project

Rensselaer Polytechnic Institute

Aug 2015 — May 2020
Troy, NY

- Created PATENTED glenoid implant design by employing data-driven decision making
- Improved longevity and bone fixation for shoulder arthroplasty
- Created modular implant to minimize time for reverse shoulder arthroplasty procedures
- Minimized post-operative complications by reducing need for bone cement
- Lab tested with scaled models and comparable (bio)materials to ensure statistical significance
- Designed product to keep in line with FDA and ASTM standards
- Applied end-to-end design thinking process to create actionable design for surgeons
- Conducted extensive benchmarking with existing market products to ensure impactful design
- Led and collaborated with team of 4 to gain comprehensive understanding of downstream impact for patient outcome, rehab procedures, and post-operative follow up surgeries
- Sponsored by DJO Orthopedics

Tools: SolidWorks, FEA Analysis, NX Siemens, LabView, Strain Gage

EDUCATION

Bentley University - McCallum Graduate School of Business

Sep 2024 — Dec 2025

Master of Science - MS in Human Factors Information Design

Graduated with Distinction.

FALL 2025 (work part time):

HF764: Conversational and Immersive Interfaces: NBME Clinical Roleplay Chatbot

HF766: Multimodal Interfaces: HapTrek (Arduino)

HF750: Testing and Assessment Methods: Client + Personal Usability Test

HF795: Research Methods for Human Factors: AI Medical Tool Review

HF735: Design Ethics (soon on Substack, along with other semester coursework)

SUMMER 2025 10-Week Session (work full-time):

CS602: Data-Driven Development with Python: Reinforced AWS Developer-Associate competency

CS655: Managing with Analytics: Utilized Tableau for data visualization and analytics

SPRING 2025 (work full time):

HF700: Foundations of Human Factors: Product Design Reviews

HF710: Managing the UX Design Experience: BentleySafe and RaySecur

HF780: Qualitative Research: Theory to Practice: Patient Home Healthcare

Coding Dojo

Jan 2023 — Apr 2023

Computer Software Engineering

North Seattle College

Jan 2021 — Jan 2021

EMT and BLS in Emergency Medical Technology/Technician (EMT Paramedic)

NSC's program is the longest running EMT program in Washington state (30+ years) and provides excellent training for a career as an EMT. 99% of NSC graduates have passed the Washington state and NREMT examinations in the last 7 years. The program includes 193 hours of lectures and hands-on practice, which is 40 more hours than necessary for Washington state. The program also required applicants to pass an advanced first aid test prior to acceptance into the program.

Rensselaer Polytechnic Institute

Sep 2015 — Jun 2019

Bachelor's Degree in Bioengineering and Biomedical Engineering

- BMED w/ Biomechanics Concentration

- Economics Minor

Tools / Skills : SolidWorks, NX Siemens, Hootsuite, Buffer, Office 365 Suite, Google Suite, MATLAB, LabView, Instron Machine, GOP/SLP Practices, Strain Gage, OpenSIM

- BIOMECHANICS

--> utilized SolidWorks to conduct FEA simulation for lower leg bones

- ADVANCED SYSTEMS PHYSIOLOGY LAB

--> performed open heart porcine dissection at Albany Medical Center

- BIOMEDICAL ENGINEERING LAB

--> conducted research & self-constructed lab experiment to determine pin locations for external fixators & how variance in pin size affects structural integrity of tibia bones

Brown University

Jan 2013 — Jan 2013

Bioengineering and Biomedical Engineering

- Crash Course in Biology, Biomaterials, Biomechanics

- Wrote up a final project idea: Knee Joint Replacement

- Orthogenua Joint Replacement based on biodegradable bone cement composition

~ Month long residential summer camp experience

This summer program was my first bit of insight into biomedical engineering, and lit the initial spark in me - to help those that are suffering from a missing limb or those who require an improved quality of life due to age or other reasons. This experience was a major shaping point into the major I chose to pursue in college.

PROJECTS

Practice Intuition - Substack / Podcast

Skills: Digital Marketing · Digital Photography · Biomechanics

Unattached Podcast

Three runners offer our opinions and voices to the current world of running, and try and do so in a semi-professional and mostly casual setting. This started due to our involvement with the YouTube running community and in third-party runner group chats / forums. Now, it has become a passion project and we record one weekly episode and try and feature guests who have different running backgrounds to hear their perspective and have more insight into how other runners lead their athletic lives.

Shoulder replacement implant design grounded in biomechanics and patient outcomes, Capstone: Shoulder Arthroplasty Fixation

Designed a modular glenoid implant for shoulder replacement surgery. Work integrated biomechanics analysis, medical-device constraints, patient outcomes data, and rehabilitation burden considerations.

Praxik Augmented Reality

Please refer to the experience section to see our presentation.

Over the course of 11 weeks, we were presented with a specific client who desired to incorporate augmented reality as part of the experience they offered. While going through an iterative design process, the team designed visuals and developed a functional app for an augmented reality experience. We also created a mobile experience that included image recognition to create a scavenger hunt experience. The program was designed in Adobe XD, and developed in Xcode using Swift. The team also conducted research about augmented reality, and was deeply immersed in user experience research and observations.

PC Build

Over the course of the summer, I developed a passion for technology, which began to include computers. I desired a workstation level PC. Having no experience with computer building or computer lingo, I started from scratch and began research on what was necessary to fulfill this desire. After researching this, I considered all the parts necessary and the necessities I had for a true workstation. Over winter break during school, I built this PC from the bottom up in 2 days, and learnt a valuable skills.

Furthermore, having dual-booted it with Ubuntu and Windows, I hope to learn more about Linux and programming in order to further increase my knowledge. The experience of building a PC was once in a lifetime, and the final outcome was worth the wait and the time.

SolidWorks Tibia Stress Simulation

- Constructed SolidWorks simulation of basketball player's tibia
- Explored stress-strain distributions in a bone w/ and w/out a small fracture
- Exploring effects of axial loading, bending, and torsion
- Final Report summarizing background research, drawings and simulations, results, and discussion of results in real-life application and theoretical applications for biomaterials

Skills Gained:

- SolidWorks Models
- Finite Element Analysis Simulations
- Understanding of biomechanics and multi-planar forces on a tibia

If you are interested in seeing this material, please contact me and I would love to share my results/final report with you!

Residential Automatic Door Opener

- Conducted Benchmarking
- Acquired Customer Needs via in-person surveying
- Helped design product for how circuitry would be integrated via the microcontroller
- Aided in purchasing of materials and construction
- Demo'ed project successfully (note YouTube link)
- Performed technical analysis and presented in PowerPoint format
- Wrote 87 page technical report summarizing experiences and analyzing process

Interactive communication practice platform with voice and text interaction, AI Clinical Roleplay Simulator

Built a conversational AI platform for patient-centered communication practice. Features scenario selection, text/voice interaction modes, transcript review, and structured feedback. Implemented with React, TypeScript, LLM workflows, and ASR/TTS concepts. Live deployment at <https://roleplay-sim.lovable.app/>

Mobile app for structured patient intake and EMS handoff, ChatEMT

Designed conversational mobile app concept for emergency medical services. Focused on structured intake workflows, follow-up question logic, and EMS-oriented handoff summaries to improve communication and documentation in emergency transport.

CERTIFICATIONS

Certified Biomechanics Specialist, Pinnacle Performance	Mar 2026
AWS Cloud Quest: Cloud Practitioner, Amazon Web Services (AWS)	Jun 2023
Software Development Online Full-Time, Coding Dojo	May 2023
Functional Yoga For Athletes, The Ready State	Aug 2021
WordPress, Alison	Feb 2017
Student of the Month, Issued by Skyline High School	Oct 2014
Social and Behavioral Research, CITI Program	
Social and Behavioral Responsible Conduct of Research, CITI Program	
Certified Personal Trainer, National Academy of Sports Medicine (NASM)	
AWS Certified Developer – Associate, Amazon Web Services (AWS)	
AWS Certified Cloud Practitioner, Amazon Web Services (AWS)	

SKILLS

Python (Programming Language) · Embedded Systems · Conversational User Interfaces (CUI) · Arduino · AutoCAD · Python · REST APIs · Amazon Web Services (AWS) · React.js · React Native · Django · MySQL · JavaScript · AWS Lambda · Git · Java · Postman API · Jest · Maven · AWS Elastic Beanstalk · Metacognition · Analytical Skills · Public Speaking · Leadership · Team Leadership · Agentic AI Development · Retrieval-Augmented Generation (RAG) · Chess · Coaching & Mentoring · Elementary Education · Web Interface Design · Patient Care · Cloud Computing · Systems Design · Patient Support · Conversation Design · Program Design · Exercise Planning · Public Health Education · Sensory Evaluation · Accelerometer · Haptics · Artificial Intelligence (AI) · Clinical Research · Red Teaming · Data Annotation · Biomechanics · Inverse Kinematics · Qualitative & Quantitative Research Methodologies · Human Factors Engineering · Large Language Models (LLM) · User Experience Design (UED) · Start-up Leadership · Statistical Analysis · ANOVA · Regression Analysis · Human Factors Analysis · Usability Engineering · UX Research · Thematic Mapping · Moderated usability testing · Think-aloud studies · Mixed-methods research · Survey design · Journey mapping · Task analysis · Information architecture · Research synthesis · Personas · Behavioral segmentation · Trust evaluation · Comprehension evaluation · Figma · Canva · Adobe XD · UserTesting · Jira · TypeScript · AI prototyping · LLM evaluation · Motor learning · Behavior change · Clinical communication · Conversational UX · ASR/TTS · Emergency medicine · Rehabilitation