

David Schraedel

Full-stack Developer (Capstone Project)

Salt Lake City, UT, United States | [LinkedIn](#) | [Portfolio](#)

Data engineer with experience in Snowflake/dbt pipelines, cloud infrastructure, and applied AI, who has cut manual processing time by 75%+ and built AI features that halved user effort on core workflows. Currently finishing an MS in Information Systems Management at BYU with an emphasis in data engineering and applied AI.

EXPERIENCE

Full-stack Developer (Capstone Project)

Jan 2026 — Apr 2026

I AM Scale

Lehi, UT

Resolved ECS service-to-service auth failures by designing and validating scoped IAM policies in Terraform. Integrated Amazon Bedrock LLM APIs into the core workflow and optimized metadata for retrieval accuracy. Diagnosed and fixed React Query cache issues that caused cross-account data leaks and stale inbox filtering.

Data & Systems Teaching Assistant

Sep 2025 — Dec 2025

Brigham Young University Marriott School of Business

Provo, Utah, United States

Taught Excel statistics, Tableau, data lifecycle and quality, and flowcharts to 50+ students in TA labs and exam reviews. Debugged SQL, VBA, HTML/CSS, Excel, and Tableau issues and resolved grading inquiries.

UX and Web Developer

Aug 2024 — May 2025

The LTN Foundation

Orem, Utah, United States

Built a relational database on Supabase/PostgreSQL from scratch, establishing authentication and dynamic content architecture. Built a responsive, accessible website in React, JavaScript, and HTML/CSS for delivering educational content.

Web Development Intern

Apr 2024 — Sep 2024

OCSC

Bountiful, Utah, United States

Delivered 20+ production-ready features to expand a SaaS marketplace web app. Implemented authentication and CRUD functionality so the team could run reliable product demos for prospective clients and investors.

Consultant Intern

Sep 2022 — Dec 2022

The Church of Jesus Christ of Latter-day Saints - Social Impact Project

Salt Lake City Metropolitan Area

Identified data source constraints for a humanitarian crisis response tool and turned those limits into recommendations.

Served as technical liaison between GIS experts and stakeholders, and presented a prototype in Esri ArcGIS that surfaced key constraints before further investment.

Teaching Assistant

Aug 2021 — Dec 2021

Brigham Young University Marriott School of Business

Provo, UT

- Provided reliable assistance to professor and students by teaching Python in test material reviews, grading over 800 assignments, and collaborating with 7 colleagues.

- Helped students apply and understand OOP, Python, Django, PostgreSQL, CSS, HTML, MVC, by clarifying principles/theory and addressing questions in one-on-one and group settings with 60 students.

Web Developer

Apr 2021 — Aug 2021

Brigham Young University

Provo, UT

- Developed structured plan to reduce storage usage by 19% for 8 department websites.

- Audited, organized, and indexed over 50 SOP documents while training replacement, providing future employees with relevant context for current and expected team processes/tasks.

Bindery Assistant

May 2019 — Sep 2019

Brigham Young University

Provo, UT

- Reduced production waste by 15%, by accurately operating machinery, via attention to detail in learning desired objectives.

- Prepared organized merchandise orders, facilitating safe and orderly work environment with attentive operation of both analog and digital machinery.

Contemporary Dance Accompanist | Live Improvisational Musician

Apr 2019 — Apr 2023

BYU Department of Dance

Provo, Utah, United States

Delivered live music for 15 to 75 dancers using music technology and 13 instruments. Adapted to the schedules and styles of 11 instructors and mentored 6 peer musicians.

Busser

May 2016 — Dec 2016

The Old Spaghetti Factory

Orem, UT

- Coordinated with a front-of-house team of 10 to clear and reset tables and complete sidework during peak hours, helping maintain smooth, efficient service in a high-volume restaurant

- Cleared, sanitized, and reset tables for 600+ guests per night, keeping the dining area guest-ready and supporting faster table turnover and higher nightly traffic

EDUCATION

Brigham Young University Marriott School of Business

Master's degree in Information Systems Management / Data and Business Intelligence

GPA 3.71

Sep 2023 — Apr 2026

Brigham Young University

Bachelor of Science - BS in Information Systems / Minor, Family Life

Awarded BYU IS Alumni Choice Award for Integrity in Action (2023)

Sep 2019 — Apr 2023

PROJECTS

Capstone: I AM Scale - Applied AI

Built an AI-assisted creator-engagement platform as part of a Master of Information Systems Management capstone project.

- Resolved ECS service-to-service authentication failures by designing and validating scoped IAM policies in Terraform.
- Integrated Amazon Bedrock, refined knowledge-base metadata, and improved the response-review experience for AI-assisted creator engagement.
- Diagnosed and fixed React Query caching behavior that created cross-account data exposure risk and stale inbox filtering.

Unified 3 source systems into one warehouse, Snowflake/dbt Data Pipeline

Built a Snowflake/dbt pipeline orchestrated with Prefect and Docker, with dbt Cloud CI/CD. Exposed the data through an MCP server for AI agent access.

ELT pipeline for transcript data, Transcript ELT Pipeline

Built an ELT pipeline in Python for 6.7M+ words of transcript data. Enabled queries and Markdown exports for LLM analysis.

R-based forecasting with a Dockerized REST API, Time-Series Forecasting Pipeline

Built a time-series forecasting pipeline in R with tidymodels, evaluating ARIMA, XGBoost, and Prophet. Deployed predictions through a Dockerized REST API.

Python script that auto-populates photo book templates, Photo Book Automation

Wrote a Python script to auto-populate photo book templates, cutting the manual work down substantially.

Designing and testing agentic AI systems, Agentic AI Design with Local Business

Partnered with a local business to design and test agentic AI systems and find places where workflow friction could be reduced.

CERTIFICATIONS

The Art of Creative Disruption: Master Lateral Thinking in the Age of AI, LinkedIn

Jun 2026

Machine Learning Basics, AI in Business Society

Mar 2026

Alumni Choice Award, BYU Information Systems Alumni Choice Awards Committee

Dec 2022

Eagle Scout, Boy Scouts of America

Feb 2015

Automation Pro I, Workato

Automation Pro II, Workato

SKILLS

Amazon Bedrock · Data Build Tool (DBT) · Data Integration · Extract, Transform, Load (ETL) · TypeScript · LangChain · Cursor AI · Artificial Intelligence (AI) · Snowflake · Flow Charts · Software Development Life Cycle (SDLC) · Information Security · Linux · Git · Product Management · Terraform · Amazon Relational Database Service (RDS) · Amazon Dynamodb · AWS Lambda · AWS Identity and Access Management (AWS IAM) · Amazon VPC · Amazon S3 · R (Programming Language) · Amazon EC2 · Docker · Cross-functional Team Leadership · Databases · Beautiful Soup · Pandas (Software) · SciPy · Tableau · Oral Communication · Data Visualization · Soft Skills · Self-Directed Learning · Machine Operation · Django · Active Listening · Music Production · Troubleshooting · Self Learning · Tailwind CSS · Information Architecture · Wireframing · Logo Design · Systems Analysis · VBA Excel · Scripting · Data Analytics · Google Workspace · Python · SQL · R (Tidyverse) · scikit-learn · dimensional modeling · Power BI · NoSQL · MySQL · EDA · Excel · lakehouse architecture · JavaScript · agentic coding · HTML · CSS · React · APIs · .NET · C# · AWS (EC2, S3, VPC, IAM, RDS, Lambda, DynamoDB, CloudFront, CodePipeline)