

Adiv Ahsan

Software Engineer III

New York City, NY, United States | [LinkedIn](#)

Backend engineer at PMG building analytics and AI infrastructure for enterprise advertising platforms, with experience scaling systems to millions of requests and shipping AI agents.

EXPERIENCE

Software Engineer III Sep 2026 — Present
PMG Advertising Agency *Dallas, TX*

Owned backend and agent infrastructure for PMG's internal analytics platform tracking \$7B+ in media spend across 60+ enterprise brands. Led development of a customizable campaign auditing platform using Node.js, Express.js, and LangGraph that replaced manual reviews across 20+ advertising platforms, preventing \$20K in overspend for pilot teams.

Software Engineer III Jun 2024 — Oct 2026
PMG Advertising Agency *Dallas, TX*

Architected RESTful APIs in TypeScript and Node.js that translated business queries into SQL across Redshift, BigQuery, and Snowflake, scaling to 2.6M monthly requests at 99.7% success. Built a multi-agent harness using LangChain and OpenAI Codex with 20+ integrated tools, reducing ~30 hrs/week of manual research. Migrated legacy reporting onto AWS SQS and ECS Fargate with zero downtime and 99.99% uptime SLO. Engineered a Redis and S3 caching layer that cut p95 latency 62% and export times from 20.2s to 7.6s.

Software Engineer Intern Jun 2023 — Aug 2023
Chera Health *Remote, US*

One of 4 engineers at a pre-seed health startup. Built a meal plan system end-to-end in Python, Flask, React, TypeScript, and PostgreSQL so dietitians assigned patient plans in minutes instead of hours. Built infrastructure on AWS Elastic Beanstalk with CI/CD using GitHub Actions and Playwright integration tests.

Software Engineer Intern May 2022 — Aug 2022
Prudential Financial *Newark, New Jersey, United States*

Implemented a container monitoring service using Python, Docker, Kubernetes, and AWS Boto3 SDK to consolidate metrics to Splunk dashboards across 20+ production services. Built a centralized onboarding portal in Node.js and React to consolidate setup guides and increase new-hire ramping.

Teaching Assistant Jan 2022 — Jun 2023
Rice Computer Science Department *Houston, Texas, United States*

Teaching Assistant:
- COMP 182 (Algorithmic Thinking)
- COMP 382 (Reasoning About Algorithms)

Machine Learning Research Assistant May 2021 — Aug 2021
Rice University School of Engineering *Houston, Texas, United States*

-Reducing latency for CNN architectures.

EDUCATION

Rice University Aug 2020 — Jun 2024
Bachelor of Science - BS in Computer Science

GPA: 3.7/4.0

PROJECTS

PyTorch inference pipeline for vision-language models, Multilingual Visual Question Answering
Built a PyTorch inference pipeline using SGLang running LLaVA and BLIP-2 locally in fp4 quantization to run a 7B vision model answering image questions on consumer hardware.

SKILLS

AWS Lambda · Flask · TypeScript · Stripe (Software) · Selenium WebDriver · Node.js · Amazon Redshift · Google BigQuery · Snowflake · MongoDB · OpenAI API · React.js · GraphQL · Data Build Tool (DBT) · Amazon S3 · Amazon ECS · Amazon ElastiCache · Terraform · BullMQ · Python · PostgreSQL · Data Structures · Deep Learning · Amazon Web Services (AWS) · Docker · Kubernetes · Splunk · Continuous Integration and Continuous Delivery (CI/CD) · Communication · Team Leadership · University Teaching · TensorFlow · Pandas (Software) · Natural Language Processing (NLP) · Computer Vision · Convolutional Neural Networks (CNN) · Software Development · Data Science · Leadership · Machine Learning · Python (Programming Language) · Java · JavaScript · HTML · Cascading Style Sheets (CSS) · Algorithms · Research · Object-Oriented Programming (OOP) · Problem

[Solving](#) · [PyTorch](#) · [SQL](#) · [Express.js](#) · [REST APIs](#) · [Redis](#) · [SQS](#) · [Fargate](#) · [Git](#) · [DataDog](#) · [LangChain](#) · [LangGraph](#)