

# Adiv Ahsan

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## Education

### Rice University

BS in Computer Science

May 2024

GPA: 3.7/4.0

## Skills

**Languages & Frameworks:** JavaScript (Node.js, Express.js, Cube.js), TypeScript, Python (Flask, PyTorch), React, SQL, Java

**Cloud & Data Engineering:** AWS (S3, ECS, ElastiCache, DocumentDB, Lambda), Docker, Kubernetes, Terraform, BullMQ

**Databases:** Redshift, BigQuery, Snowflake, PostgreSQL, MongoDB, Redis

## Experience

### Software Engineer II

Oct 2025 - Present

### Software Engineer I

June 2024 – Oct 2025

PMG Advertising Agency

Dallas, TX

- Built cross-data warehouse API leveraging Node.js and Express.js with Cube.js analytics framework enabling business logic queries across Redshift, BigQuery, and Snowflake; scaled to 10K+ daily requests and reduced time-to-insight by 95% for 60+ enterprise clients
- Designed two-tiered Redis caching architecture with schema-aware invalidation, reducing p95 API latency from 12s to <1s (92% improvement) and eliminating dashboard timeout errors
- Engineered high-throughput CSV export pipeline utilizing BullMQ job queues and Redis caching with MongoDB and S3 storage processing 200GB+ daily with 99.8%+ uptime for campaign performance reports
- Enhanced natural language query assistant using OpenAI GPT-5.2 API with dimension-aware context injection, increasing query parsing accuracy from 57% to 80% across 2K+ monthly analyst queries

### Software Engineer Intern

June 2023 – Aug 2023

Chera Health

Remote, US

- Engineered end-to-end meal plan assignment system using Python, Flask, React, TypeScript, and PostgreSQL, automating dietician workflows and cutting manual setup time from 2+ hours to 15 minutes
- Built Stripe payment platform with subscription management, automated billing, and shipping logistics integration, demonstrating seamless checkout experience across 30 client presentations
- Developed automated testing framework utilizing Selenium WebDriver with ChromeDriver integration, implementing structured logging that reduced manual QA effort by 80% and caught 5+ critical production issues pre-launch

### Software Engineer Intern

May 2022 – Aug 2022

Prudential Financial

Newark, NJ

- Implemented ECS container monitoring service (Python, Boto3) streaming real-time metrics to Splunk dashboards, reducing incident diagnosis time by 67% for 20+ production services
- Automated Kubernetes deployment workflows using Python and kubectl, reducing deployment time from 30 minutes to 12 minutes per service and enabling 3x faster release cycles
- Created a technical onboarding MVP using Node.js, React, and AWS Lambda to simplify developer setup and knowledge sharing, providing a scalable foundation for faster new-hire ramp-up

## Projects

### PMG Data Studio (Hackathon Winner)

Dec 2025

- Designed and built customizable semantic layer using TypeScript, Node.js, and dbt MetricFlow, democratizing data integration for non-technical users and eliminating 200+ hours of manual SQL development annually

### Multilingual Visual Question Answering

Oct 2025 - Nov 2025

- Engineered cross-lingual VQA system integrating LLaVA-1.6 model with custom PyTorch inference pipeline; achieved 85% answer quality improvement across low-resource languages (Uyghur, Kurdish)
- Built VLM evaluation framework with MCP integration; deployed Gradio demo with real-time multilingual inference