

Anant Sharma

Software Engineer

github.com/virtuoso-04 | candidates.intervues.club/u/anant-sharma

SUMMARY

Software Engineer with background as a Data Engineer Intern at Amazon and Software Engineering Intern at Dolze.ai and Emmetra Technologies. Experienced in building fault-tolerant data pipelines, AI content platforms, and high-performance processing systems. Skilled in scalable architecture, multi-agent AI systems, and cloud infrastructure.

EXPERIENCE

Data Engineer Intern

Amazon – IN Stores Tech (Merlin BI Platform, 200+ business teams)

Jan 2026 – Jun 2026

- Built MDDQ, a scalable fault-tolerant data quality pipeline on AWS executing 410+ daily checks, eliminating 2–4 hours of manual validation per domain daily and detecting a critical live incident involving 314 hours of data staleness.
- Engineered an adaptive threshold engine featuring 10 scoring methods and built an AI Onboarding Agent that reduced new domain setup time from 1–2 weeks to 15 minutes.
- Developed ASTOR, an end-to-end SQL validation framework utilizing AST parsing with sqlglot and LLM semantic diffs, backed by 239 unit tests and a 28-rule DynamoDB library to ensure production deployment integrity.
- Implemented IAM STS AssumeRole chaining for cross-account Redshift access across 3 AWS accounts and integrated Amazon Bedrock with automated SES alert routing to 12 dataset owners.

Software Engineering Intern

Dolze.ai

Jun 2025 – Sep 2025

- Architected a scalable AI content platform utilizing FastAPI microservices and Google Gemini LLMs, improving workflow efficiency by 40% and feature adoption by 25%.
- Built REST APIs for multi-tiered distributed systems, automated testing pipelines, and production telemetry dashboards to monitor model performance across teams.

Software Engineering Intern

Emmetra Technologies

Nov 2024 – Jan 2025

- Engineered a scalable image processing pipeline in Python and C++ utilizing parallel computing and algorithm optimization, reducing processing latency by 40% across 100+ images.
- Developed a benchmarking harness to track memory and compute utilization via data structures and complexity analysis.

EDUCATION

M S Ramaiah Institute of Technology Bengaluru, India · Bachelor of Engineering · 2022 – 2026

SKILLS

Languages and Frameworks: C, C++, CSS, HTML, Java, JavaScript, Jupyter Notebook, Python, SQL, TypeScript, FastAPI, LangChain, LangChain.js, Pandas, Scikit-learn

Databases: DBMS, Relational Databases

Tools: AWS Bedrock, AWS CloudWatch, AWS DynamoDB, AWS EventBridge, AWS IAM, AWS Lambda, AWS Redshift, AWS S3, AWS Step Functions, CI/CD, Distributed Computing, Distributed Systems, Docker, Fault-tolerant & Scalable Systems, Git, Microservices, Multi-tiered Systems, Object-Oriented Design, RAG, REST APIs, sqlglot, System Design

PROJECTS

AgentGuard

Vendor-agnostic multi-agent AI system (OpenAI, Anthropic, Gemini, Ollama) with Planner, Navigator, and Validator agents on distributed systems. Implemented multi-agent workflow architecture utilizing Python, TypeScript, LangChain.js, and HMAC-SHA256. Executed 61 integration tests and 25-payload adversarial evaluations to validate distributed system reliability.

Python, TypeScript, LangChain.js, HMAC-SHA256

Amazon Product Classifier

Offline benchmarking system evaluating classical ML against LLM few-shot classification across 36 categories. Developed and benchmarked a TF-IDF + SVM model achieving 96.5% accuracy alongside a Gemini 1.5 Flash few-shot classifier. Conducted algorithm design and complexity analysis using Python, Scikit-learn, Pandas, Gemini, and OpenAI APIs.

Python, Scikit-learn, Gemini, OpenAI, Pandas

AWARDS

Vice President, E-Cell MSRIT, SAP Hackfest 2024: Top 50, IIT-BHU 2024: Finalist, AWS Certified AI Practitioner (AIF-C01), AWS Academy Cloud Foundations