Sahil Sait Naveed

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Education

San Jose State University — **Aug 2024 – Expected May 2026**
Master of Science in Computer Science — *San Jose, CA*

APJ Abdul Kalam Technological University — **Jul 2019 – Jun 2023**
Bachelor of Technology in Computer Science and Engineering — *Trivandrum, India*

Work Experience

Software Development Engineer Intern — **May 2025 – Aug 2025**
Amazon — *Seattle, WA*

- Designed and implemented **versioned, auditable backend services** in **Java** with **AWS Lambda** and **DynamoDB** for a secure M&A note-taking system centralizing critical accounting information.
- Built a responsive frontend in **React** and **TypeScript**, enabling faster onboarding and improved compliance with full author attribution and version history.
- Delivered production-ready system with **end-to-end ownership** from design through deployment, supporting **$20B+ in M&A investments** with complete audit trails.

Software Development Engineer — **Jul 2023 – Aug 2024**
Amadeus IT Group — *Bangalore, India*

- Architected **observability infrastructure** using **Python** and **Splunk** for metrics retention, log analysis, and **SLA monitoring**, enabling data-driven capacity planning and incident response.
- Developed a full-stack report automation platform with **React** and **Flask**, exposing **REST APIs** and reducing manual reporting effort by **60%**.
- Improved platform **reliability** through automated alerting for off-hours outages, cross-team incident resolution for **24/7 operations**, and **on-call rotation**.

Projects

DRL-Based Autonomous Driving with Emergency Vehicle Yielding — **Sep 2025 – Dec 2025**

- Designed custom **OpenAI Gym** environment simulating highway navigation with dynamic hazards (lane closures, stalled vehicles, emergency vehicles) and 128-cell **LiDAR** observation space for 360° perception.
- Engineered multi-component **reward function** balancing collision penalties, progress incentives, speed optimization, and emergency yielding behavior for stable policy convergence.
- Trained **PPO** agent with custom **self-attention** policy network, achieving **64.2% success rate** and **34% collision reduction** over baseline across 500 test episodes.

SecondBrain | *LLM-Powered Personal Knowledge Base* — **Sep 2024 – Nov 2024**

- Built a **CLI**-based personal knowledge base with **Python**, **Ollama**, and **ChromaDB** to enable fast semantic search across personal documents.
- Integrated a **RAG pipeline** with local **Llama** model for private, on-device query processing.
- Designed multi-format ingestion (pdf, docx, txt) to unify search across heterogeneous document types.

Technical Skills

- **Programming**: Python, Java, Go, JavaScript/TypeScript
- **Technologies**: AWS, Azure, Docker, Kubernetes, React, NextJS, NodeJS, Spring Boot, Flask, PostgreSQL, Splunk, PyTorch, Hugging Face Transformers, MCP, Claude Code, Codex
- **Concepts**: Data Structures, Algorithms, Object-oriented Programming, SQL/NoSQL, Distributed Systems, API Design (REST, gRPC), Observability, CI/CD, Machine Learning, GenAI, LLMs, Context Engineering