Arshan Bhanage

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SUMMARY

M.S. Software Engineering student with experience across **backend APIs**, **distributed systems**, and **GPU-accelerated / AI-integrated** workflows. Skilled in **Java, Python, C++**, and **OOP, DSA, and debugging complex system-level issues**. Hands-on with **Spring Boot, FastAPI, Docker, Kubernetes**, and **CI/CD pipelines**. Strong foundations in **Operating Systems, Relational Databases, Linear Algebra, and Numerical Methods**. Passionate about building **scalable, reliable software** that improves performance, developer productivity, and end-user experience.

SKILLS

Languages	**Java**, **Python**, C++, SQL, Bash, JavaScript, Go
Backend	**Spring Boot**, **FastAPI**, Ruby on Rails, REST APIs, **Microservices**
Cloud/DevOps	**Docker**, **Kubernetes**, OpenShift, GitHub Actions, AWS, **Ansible**
Databases	PostgreSQL, SQL, MongoDB, **Elasticsearch**
Testing	**Cucumber**, Selenium, Unit/Regression Testing, Validation Frameworks
Concepts	**Distributed Systems**, **Operating Systems**, Scheduling, Process Control, Virtualization
AI/ML	Deep Learning, **CUDA**, cuDNN, NCCL, TensorRT, **RAG**, LLM Evaluation

EXPERIENCE

IBM, **Backend Engineer** — Jun 2024 – Jun 2025

- **Java + Spring Boot + SQL** → built backend APIs for govt. banking portal → ensured **fault tolerance, scalability, and reliability** under heavy load
- **Cucumber + Selenium + CI/CD (GitHub Actions)** → automated API validation pipelines → cut QA effort by **60%**
- **Distributed workflows on OpenShift** → optimized resource utilization → improved throughput by **30%**
- **Debugging + performance tuning** → resolved high-priority production issues in **<24 hrs**, accelerating feedback loops

Outlier, **AI Evaluation Expert** — Dec 2023 – May 2025

- **Python + CUDA-powered LLM validation** → tested AI on 100+ SWE tasks (coding, math) → boosted model reliability
- **Debugging in Python/C++** → identified failure modes in text, image, audio → reduced production defects by **25%**

Alt-Pi Fintech, **Frontend Developer Intern** — Apr 2024 – May 2024

- **Flutter + REST APIs + Docker backend** → implemented QR-based UPI payment → enabled **1000+ transactions**

Vmayo Technologies, **Fullstack Developer Intern** — May 2023 – Oct 2023

- **Ruby on Rails + SQL** → developed multi-tenant reseller platform with quotas, IP pools → achieved **90% client retention**
- **RBAC** → scaled email infra across tenants → boosted partner growth and recurring revenue

PROJECTS

TraceIQ (Agentic AI + RAG + GPU Acceleration for Testing)

- **FastAPI + Python** → built local system generating **5000+ test cases** from FSDs, addendums → reduced QA effort by **50%**
- **Vector DB + Document Chunking** → indexed confidential docs securely → enabled high-throughput retrieval in banking
- **Agentic AI Orchestration** → switchable connectors for local and API LLMs → ensured flexibility and real-time inference

Heuristic Evaluation Tool (OpenAI, Streamlit)

- Automated heuristic UI evaluations → saved **20+ hrs/month** in manual review effort with AI-driven debugging feedback

Book Bank Platform (Rails, SQL, Elasticsearch)

- **Rails + Elasticsearch** → delivered **10x faster search performance** and secure payments via Stripe

EDUCATION

San Jose State University, **M.S. in Software Engineering** — Aug 2025 – May 2027

Expected Graduation: May 2027
Relevant Coursework: **Distributed Systems**, Algorithms, Operating Systems, Data Management, Computer Architecture