Shaishav Shah

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Experience

Palantir   New York, US
Software Engineer   Aug 2024 – Present

- Independently scoped and built a security compliant, **telemetry-backed**, self-service account recovery solution with **first-class observability**, saving ~**6,000 hours annually** across 3+ downstream teams.
- Led engineering for a **mission-critical service** to enterprise-wide security operations, **architecting low-latency java backend systems** resulting in 95% faster response times, and significantly enhanced platform performance.
- Developed a python **AI agent**, architected with modular subagents, to integrate multiple observability sources, automating ticket triage and providing **accurate root-cause analysis** and remediation ideas.
- **Onboarded 2 interns** in designing and implementing **full-stack systems** in Java/React, accelerating their self-sufficiency and enabling them to independently drive outcome delivery.

Software Engineer Intern   May 2023 – Aug 2023

- Designed and executed **zero-downtime migration** strategies to decompose monolithic user permissions into **fine-grained access controls**, enabling role-based scalability and enhanced security.
- Optimized Java services with **caching, proxy objects,** and **multi-threading**, reducing the **p99 latency** for orchestration endpoints by over **41%**.
- Engineered performant, lightweight, and **modular pages** using **Typescript** and **React**, architecting **dynamic imports** to reduce initial load times by **14%**.

Niricson Software Inc.   Victoria, Canada
Software Engineer Intern   May 2022 – Aug 2022

- Automated the machine learning workflow in **Python** to dynamically reserve, utilize, and terminate **cloud GPU instances**, saving **$17,000** yearly.
- Introduced a new **geospatial vector data** format for **AWS DocumentDB**, holding over **50%** more data points, while reducing loading time by **80%**.
- Created a custom **geo-json simplification algorithm**, optimizing memory usage and polygon simplification to scale real-time rendering capacity from 1K to 500K+ data object.

Projects

Oasis (Stanford University - TreeHacks 2024 - Winner)   Feb 2024

- Built a RAG system using **LangChain** and **vector databases** to enable users to chat, query, and compare large, **unstructured** ESG documents efficiently.
- Fine-tuned **LLaMa-2 LLM** and leveraged **SentenceTransformers** for semantic alignment, extracting metrics and structuring data for fast indexing, retrieval, and benchmarking across companies.

Technical Skills

AI tools: Claude Code, Subagents, MCP Server, Operational-Layer AI, Spec-Driven Development
Languages: Java, C, C++, Python, JavaScript / Typescript, SQL, NoSQL, HTML, CSS
Technologies: Spring, ExpressJS, MongoDB, NodeJS, React, Redux, Pandas, Qt, Boost C++, Android
Infrastructure: AWS EC2, SES / SNS, S3, RDS, EFS, Google Cloud, Firebase, Git

Education

University of Alberta   Sep. 2020 – May 2024
Specialization in Computing Science — Business Minor; GPA: 4.0/4.0   Edmonton, Alberta