Tanmay Ranaware

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linkedin/tanmayranaware14 | github/TanmayRanaware | Portfolio- https://tanmayranaware.github.io/

Professional Summary:

*Full Stack Developer contributing to all phases of the software development lifecycle. Recognized for delivering **scalable, high-performance, maintainable applications** with clean architecture, seamless collaboration, and **reliable cloud deployment**.*

Education:

San Jose State University, Master in Computer engineering   *San Jose, CA :-* **Aug 25-Present**

   • Enterprise Software (Cloud Technologies, Infrastructure, Distributed Systems)   • Operating Systems

Technical Skills:

Programming Languages: C, C++, Java, Python, Go, Ruby, JavaScript, TypeScript, SQL, Bash
Web Tech / Security: RESTful APIs, gRPC, OAuth 2.0, JWT, HTTPS/TLS, WebSockets, CSRF, CORS, DNS, HTTP/2
Frameworks: Spring Boot, Node.js/Express, Flask, Ruby on Rails, React.js, Next.js, React Native, Grafana
Cloud & Infrastructure: AWS, GCP, Kubernetes, Docker, Terraform, Unix/Linux Environments
Databases: PostgreSQL, MongoDB, MySQL, Cassandra, Redis, Neo4j, Snowflake
Distributed Systems: Apache Kafka, Spark, PySpark, Hadoop, Hive, Athena, Multi-threaded APIs
Observability- Prometheus, AWS CloudWatch, NewRelic, Grafana, IBM Instana
Open Source Contribution- Super Contributor in Hacktoberfest 2025(holopin/badges)

Professional Experience:

Software Engineer | Blackbuck(Zinka Logistics)   **Jul 23- Jun 25**
Tech Stack- *Java, Spring Boot, Python, Go, Redis, MySQL, Kafka, Spark, Docker, Kubernetes, REST, gRPC, AWS (EC2, EKS, Lambda, CloudWatch, RDS), Terraform, CI/CD (Jenkins)*

Financial Services Team

- Built **high-throughput REST and gRPC microservices** using **Java** and **Spring Boot**, processing thousands of financial transactions per second with **99.9 % uptime** and low-latency performance.
- Implemented **asynchronous event pipelines** with **Kafka** and **AWS Lambda** for secure, real-time payment orchestration, reducing end-to-end transaction latency by **35 %**.
- Strengthened platform reliability through **test-driven development (TDD)**, **integration testing**, and automated **CI/CD pipelines**, ensuring fault tolerance and auditability across distributed systems.

Telematics Team

- Designed a **real-time data ingestion service** using **Kafka**, **Cassandra**, and **Spark**, processing **100 GB+ of telemetry data/day** with optimized throughput and parallelism.
- Containerized and deployed scalable **microservices** with **Docker** and **Kubernetes** on **AWS EKS**, achieving resilient, self-healing cloud infrastructure production stack.
- Developed **monitoring and alerting pipelines** via **AWS CloudWatch** and **Prometheus**, automating anomaly detection and ensuring **secure, mission-critical uptime** for large-scale distributed services.

Software Engineer Intern | Legato Health Technologies(Elevance Health)   **May - Jun 22**
Tech Stack: Python, PySpark, Hive, TensorFlow, Docker, Grafana, Prometheus, CI/CD

- Engineered **ETL pipelines** to process **healthcare data**, ensuring data integrity and compliance.
- Built **Grafana** + **Prometheus dashboards** for real-time pipeline monitoring, reducing alert response time by **25 %**.
- Applied **TDD** within CI/CD pipelines to automate data validation and regression testing.

Projects

TraceQA | github/TraceQA | *Python, SQL, TypeScript, PostgreSQL, Pinecone, Fast API, Lanchain*

- Developed a **RAG using Langchain** for automated requirement analysis, test case generation, and change tracking
- Engineered a **multi-agent system** integrating retrieval and generation agents enhancing QA productivity using FastAPI

Pneumonia Detection | github/Pneumonia-Detection| *Python,Keras,Tensorflow, ImageNet, ResNet, DenseNet, and InceptionV3*
- Implemented **transfer learning pipelines** through reproducible ML workflows and visualization dashboards.
- Automated **image feature extraction** with **pretrained CNN models**, improving training efficiency for healthcare.

Achievements

   • Google Cloud Badges(credly/badges): Prompt Design in Vertex AI (Apr 2025) • Build Real-World AI Applications with Gemini and Imagen (Apr2025) • Develop GenAI Apps with Gemini and Streamlit (Apr 2025) • Inspect Rich Documents with Gemini Multimodality and RAG(Apr 2025) • Explore Generative AI with Vertex AI Gemini API (Apr 2025).