Mithun Raghu Veluru

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Education

Vellore Institute of Technology Expected: May 2027
B.Tech, Computer Science and Engineering (CSE) — GPA: 9.27/10 *Vellore, IN*

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, DBMS, Computer Networks, System Design, Distributed Systems

Technical Skills

Languages & Fundamentals: Java, Python, C++, SQL, JavaScript, TypeScript, Rust, Bash | Data Structures & Algorithms (DSA), OOP/OOD, System Design (HLD/LLD), Distributed Systems, Concurrency

Backend & Frameworks: Spring Boot, FastAPI, Flask, REST API Design, Microservices, OAuth 2.0, WebSockets, Event-Driven Architecture, Rate Limiting, React, Next.js

Databases, Cloud & DevOps: PostgreSQL, MySQL, Redis, MongoDB (NoSQL), ClickHouse, SQLite | AWS (EC2, S3), Docker, Linux, CI/CD (GitHub Actions), Git, Agile/Scrum

Messaging, Observability & AI: Apache Kafka, OpenTelemetry, Micrometer, JUnit 5, Unit & Integration Testing, Pandas, NumPy, Power BI, PyTorch, TensorFlow, scikit-learn

Experience

Hanco Automotive Jeddah, KSA
Software Engineer Intern (SDE) *May 2026 – Present*
- Built backend microservices and PostgreSQL database features for a SaaS platform serving **10,000+ active users**, integrating **40+ JUnit test cases** to achieve **85% code coverage** and validate core REST APIs.
- Automated containerized deployments using **Docker** and **GitHub Actions CI/CD pipelines**, cutting manual deployment overhead by **40%** while delivering production software across **3 Agile teams**.

Techvaria Bangalore, IN
Software Engineer Intern (SDE) *Jun 2025 – Jul 2025*
- Developed **FastAPI** backend services and **SQL/MongoDB** data pipelines processing over **50K daily user events** for real-time Power BI analytics dashboards.
- Optimized complex database queries using **Pandas** and **NumPy** for behavioral analytics, boosting query performance by **20%** and cutting manual reporting effort by **30%**.

Projects

Traya – Distributed Observability Platform | *Java 21, Spring Boot, Kafka, ClickHouse, PostgreSQL, Redis, OpenTelemetry*
- Architected a resilient observability platform using **Java 21, Spring Boot, Kafka, ClickHouse**, and OpenTelemetry to centralize telemetry across **8+ microservices** and automate root-cause analysis.
- Implemented fault-tolerant event pipelines with asynchronous Kafka processing, idempotent writes, and DLQs, successfully handling **115K requests in 50 seconds with 0% data loss** under stress testing.

FluxLimit – High-Throughput API Rate Limiter | *Java 21, Redis, Spring Boot, Micrometer, JUnit 5, Gradle*
- Designed a scalable API rate-limiting framework deploying **Token Bucket** and **Sliding Window** algorithms with Redis atomic operations for highly available backend microservices.
- Delivered thread-safe state transitions and Micrometer metric collection, achieving high-throughput benchmarks of **4.9M rate checks/sec** validated by comprehensive unit test suites.

FlowSight – Financial Analytics Platform | *Java, Spring Boot, PostgreSQL, React, Docker*
- Architected a full-stack financial platform using **Spring Boot**, PostgreSQL, and React with an OCR-driven ingestion pipeline, achieving **95% automated transaction categorization accuracy**.
- Built asynchronous data pipelines parsing **1,000+ financial records/min**, backed by normalized PostgreSQL schema design and custom rate-limiting middleware.

FileLens – Concurrent File Management System | *Rust, Tauri 2, React 19, TypeScript, SQLite, BLAKE3*
- Developed a cross-platform desktop application using **Rust, Tauri 2**, and React for multithreaded filesystem processing across **100GB+ local datasets**.
- Designed a high-performance duplicate detection engine using **BLAKE3 hashing** and an **8-thread worker pool**, completing full filesystem scans in under **2 minutes** via native IPC messaging.

Certifications

AWS Serverless Demonstrated | **Oracle Certified Foundations Associate:** Agentic AI, Cloud Infra AI, AI Database — 2026