

JAISON DAVID M

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PROFESSIONAL SUMMARY

Full-Stack Developer specializing in high-throughput distributed systems, event-driven architectures, and production platforms currently serving 5,700+ students. Experienced in Go (Gin), Apache Kafka, Redis, Docker, and MySQL, with a strong focus on concurrency control, low-latency API design, and containerized microservices. Pursuing a B.E. in Computer Science and Engineering; seeking a Software Engineering / Full-Stack Developer internship.

TECHNICAL SKILLS

Languages: Go (Golang) • Java • JavaScript / TypeScript • C • SQL • Bash
Backend & Distributed: Go (Gin) • Node.js • Express.js • REST APIs • Apache Kafka • Redis (Lua scripts, caching)
Frontend: React.js • Next.js • HTML5 • CSS3 • Tailwind CSS
Databases: MySQL (transactions, indexing, connection pooling) • PostgreSQL
DevOps & Tools: Docker • Docker Compose • Caddy • Nginx • Linux • Git • GitHub Webhooks • Postman

FEATURED PROJECTS

iTrigger – Continuous Deployment & Webhook Automation Server • React, Go (Gin), Docker, Caddy, GitHub Webhooks, MySQL [GitHub](#)

- Built a lightweight continuous deployment platform in Go (Gin) automating deployments by mapping GitHub repositories and branches to server workflows.
- Implemented HMAC-SHA256 webhook signature verification to authenticate GitHub events and block unauthorized deployment triggers.
- Containerized microservices using Docker Compose with Caddy as an HTTPS reverse proxy with automatic SSL and real-time execution logs.

BitCentral – Full-Stack Institutional Data Platform • React, Go (Gin), MySQL, Docker, Linux [GitHub](#) • [Live Demo](#)

- Engineered a full-stack institutional data platform currently serving 5,700+ students across 20+ academic departments through secure REST APIs.
- Designed a thread-safe in-memory caching layer using sync.RWMutex and deep-copy buffers, reducing external API calls and cutting response latency.
- Implemented RBAC authorization middleware, SQL-backed role validation, and optimized MySQL queries using transactions and connection pooling.

ZeroProxyAttendance – QR Attendance & Anti-Proxy System • React, Go, MySQL, Docker, REST APIs [GitHub](#)

- Built an anti-proxy attendance platform eliminating check-in manipulation through time-sensitive dynamic QR code cryptographic handshakes.
- Integrated dual-factor physical verification combining GPS geofencing and campus network IP validation to guarantee in-class student presence.
- Developed responsive instructor dashboards for real-time validation feeds, attendance anomaly detection, and automated export pipelines.

Ticket Booking System – Distributed High-Throughput Architecture • Go (Gin), Apache Kafka, Redis, MySQL, Docker, Nginx [GitHub](#)

- Engineered a distributed ticket booking backend designed to handle 100,000+ requests per second with strong consistency guarantees.
- Implemented atomic Redis Lua script availability gates to prevent overselling and eliminate race conditions under intense concurrency.
- Designed an asynchronous event-driven booking pipeline using Apache Kafka (12 partitions, 32 worker consumers) with MySQL inventory persistence.

EDUCATION

Bannari Amman Institute of Technology, Erode — B.E. Computer Science and Engineering

2021 – 2025

CGPA: 9.28 / 10

Holy Children Matriculation Higher Secondary School, Salem

Salem, Tamil Nadu

Higher Secondary (12th) – 569 / 600 • SSLC (10th) – 451 / 500