

# NICK JOEL GOUEND

FULL STACK ENGINEER

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## Professional Summary

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- **Performance-Focused Backend Engineer** with 5+ years of experience architecting distributed systems and migrating legacy infrastructures to cloud-native environments. Expert in **Java, Node.js, and Python**.
- Led a team that attended to a **hackathon** during **Toronto Tech week June 2025**, with an AI-Based solution for city healthcare coordination offering smart patient routing, dynamic in-house scheduling and chat-based sickness severity classification using Gemini 2.5 flash and custom ML model deployed on GCP cloud.

## Education

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**Master of Science in Computer Science, GPA:3.2** | University of Yaoundé I, Cameroon

**Data Engineering and Analytics** | NPower Canada, Ontario, Canada

## Certifications

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**AWS Solutions Architect Associate** | AWS Certification

Sep 2025

**Java SE 8 Programmer I Associate** | Oracle Certification

Feb 2025

## Technical Skills

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- **Runtime and Scaling:** Node.js (Event-Loop Optimization, Worker Threads), Java (Spring Boot, JUnit, JVM Tuning), Python (Django, Flask, Pytest), TypeScript, Angular (Signals/State Management), React.
- **API and Distributed system:** Apache Kafka (EDA, Consumer Groups), Prisma, Redis (Failover, Blacklisting), MongoDB (Explain Plan, Denormalization), CQRS, Idempotency, Circuit Breakers, Rest, GraphQL
- **Observability and Dx:** OpenTelemetry, Jaeger, Prometheus, GitHub Actions (CI/CD), AWS (EC2/t4g, Lambda, ECS), Docker, Kubernetes, Terraform (IaC).

## Work Experience

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### Full Stack Software Engineer

Jan 2024 – Aug 2024

Wiconet, (*early-stage tech startup*)

- Refactored backend architecture for asynchronous processing using Thread and asyncio libraries with Redis caching, cutting API response latency by 40% for high-traffic endpoints.
- Engineered a **CI/CD-driven ML lifecycle** using **GitHub Actions** and **Docker**, automating model validation and containerized deployments; achieved a **80% reduction in deployment rollbacks**.

### Full Stack Software Engineer

Sep 2021 – Jan 2024

Firesoftware, (*software development company*)

- Contributed to end-to-end development by integrating frontends (**Angular, React**), designing **secure APIs**, and **refactoring legacy architecture**; implemented key features while **optimizing data schemas**.
- Engineered a high-velocity CI/CD pipeline using **GitHub Actions** and **Docker**, integrating **Biome/ESLint** for lightning-fast linting and **Vitest** for unit/integration testing; reduced pipeline execution time by **40%**.

## Recent Projects

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Consult my online **portfolio** for more projects

### Postair – Content Sharing Platform | Node.js, Express, Redis, MongoDB, Mongoose, JWT, RBAC 🔒

- Architected a high-throughput API utilizing **Asynchronous I/O** and **Worker Threads** to offload CPU-intensive tasks, maintaining sub-60ms response times under a load of 500+ concurrent connections.
- Migrated data-heavy dashboards from **REST to GraphQL** with **DataLoader** batching; reduced average payload size by **55%** and improved perceived UI performance by **48%** via the elimination of over-fetching.
- Achieved **low-latency design** by reducing API response times by **48% (from 100ms+ to 52ms)**; implemented **Redis caching** for hot-path data and optimized MongoDB serialization using **.lean() queries**.
- Implemented advanced search and analytics using MongoDB Aggregation Pipelines and Full-Text Search (FTS) to provide real-time data insights.