

# AHMED DAWOOD

SOFTWARE ENGINEER

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6 October - Egypt

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## SUMMARY

Backend engineer with 3+ years building scalable, high-performance systems used by real products across e-commerce, retail, fitness tech, and smart hardware. Specialized in microservices architecture, cloud-native infrastructure on GCP, and performance engineering — having driven measurable outcomes like 80% faster endpoint response times and 50% higher message queue throughput. Comfortable owning architecture decisions end-to-end, from database design and API development to deployment pipelines and code review culture. Fluent in Java/Spring Boot and Node.js, with a track record of leading monolith-to-microservices migrations and delivering clean, maintainable backend systems at scale.

## TECHNICAL SKILLS

- Programming & Scripting: Java (Core, OOP), JavaScript (JS), TypeScript (TS), Node.js, Express.
- Frameworks & Architectures: Spring Boot, Microservices, RESTful Web Services, Design Patterns.
- Databases: SQL (PostgreSQL, Supabase), NoSQL (Firestore, MongoDB), Database Design.
- Testing & Quality: JUnit, Jest, Unit Testing, Integration Testing, Postman, Swagger.
- Cloud & DevOps: Google Cloud Platform (Cloud Run, Pub/Sub, Secret Manager), Firebase, Docker, Gradle, Maven, Git, Agile.
- Monitoring: Google Uptime Check, Prometheus, Grafana.
- Performance: Caching (Redis, in-memory) and NodeCache.
- Integrations & APIs: Stripe, SendGrid, Twilio, Algolia, DoorDash, Strava, SquareUp, branch.io.

## WORK EXPERIENCE

### Zetaton

From November 2022 to Present

A US-based software house (Milwaukee, WI) delivering full-cycle custom web, mobile, and desktop products for North American clients across healthcare, e-commerce, ride-hailing, HR systems, and fitness tech.

#### Responsibilities

- Redesigned and modularized the backend architecture, transforming a monolithic system into microservices to enhance scalability, maintainability, and deployment efficiency.
- Designed and optimized SQL and NoSQL databases for multiple projects, creating robust and efficient data models that supported complex application logic and high-volume data flows.
- Implemented a high-performance caching layer, increasing the responsiveness of critical endpoints by 80%.
- Optimized message queue processing through multithreaded execution, boosting throughput by 50%.
- Developed secure and dynamic environments using Google Secret Manager for centralized configuration management, strengthening reliability and security.
- Led code reviews, guided architectural decisions, and mentored team members to ensure adherence to best practices and maintain high engineering standards across the organization.

#### Selected live Projects

Ciye / Speedo (Nov 2022 – Present) – Mobile app connected to smart goggles for swimmers.

- Migrated monolithic backend to microservices, implemented caching and multithreading, and secured configurations with Google Secret Manager.
- Applied unit testing to ensure stability and reliability.

Quicktask (Dec 2023 – Apr 2024) – Open bidding and reservations platform.

- Supported multi-flavor architecture with region-specific functionality and localization.
- Developed and optimized new platform features.

Smartquip (Mar 2023 – Oct 2023) – Gym AR app for tracking workouts.

- Built an algorithm to process JSON activity data for accurate athlete performance tracking.

Enabl (Oct 2023 – May 2025) – Retail task management app.

- Automated task and job cycles, implemented calendar scheduling, and developed analytics dashboards for operational insights.

Truckparts (Jul 2024 – Oct 2024) – E-commerce platform for car parts.

- Developed secure payment flows, optimized ordering features, and managed inventory logic for improved reliability.

TableTuck (Nov 2022 – Jan 2023) – Restaurant ordering and reservation platform.

- Created a marketing notification service to deliver personalized push notifications to users.

OnAirWarning (Oct 2023 – Mar 2024) – Desktop meeting assistant application (mute, freeze, etc.).

- Developed an ordering service integrated with Amazon Seller Retail.
- Applied unit testing with Jest to ensure code quality.

## LANGUAGES

### English

Fluent

### Arabic

Native

## EDUCATION

### Bachelor in Computer Science

El-Shorouq Academy - Cairo - Egypt

From 2016 To 2020

## CERTIFICATIONS

### Coursera

[UC San Diego Object Oriented Programming in Java.](#)

### Coursera

[Building Cloud Services with the Java Spring Framework.](#)

### Coursera

[UC San Diego Data Structures and Performance.](#)

### Coursera

[Stanford Introduction to Machine Learning.](#)