

Nawaf Al Lawati

## Software Engineer

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Highly accomplished and versatile Software Engineer with 3+ years of progressive experience in mobile (Android Kotlin, Flutter), full-stack web (React, Angular.js), and backend development (Java Spring Boot, Go, Kotlin Ktor). Proven track record of delivering critical applications, enhancing user engagement, and optimizing operational efficiency through robust engineering, comprehensive testing, and effective cross-functional collaboration. Eager to leverage strong technical acumen and leadership potential to drive impactful software solutions.

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## EXPERIENCE

### Software Engineer | PhazeRo, Vodafone Oman | Oman | May 2022 – Present

- Delivered critical applications within Vodafone Oman's Digital Factory, ensuring alignment between technology, business, and management teams.
- Implemented 10+ new features (including Vodafone Black) in the flagship My Vodafone app, directly enhancing UX and driving a 12% increase in user engagement.
- Developed the eStore Eye app end-to-end as the sole Android engineer, streamlining operations for 125 technicians, reducing false positives, and cutting operation time by 15%.
- Designed and architected Vodafone's eKYC system for the Finance team, securely integrating with Royal Oman Police servers via AES encryption and reducing rogue customer resolution time by 9%.
- Established and led a 6-person R&D team to deliver PoCs that improved operational efficiency and enriched user and staff experience.
- Promoted within 12 months in recognition of delivering measurable organizational impact.

### Backend Development Trainee | Target Energy Solutions | Muscat, Oman | Feb 2022 – Apr 2022

- Developed and deployed Golang microservices on AWS using Docker, directly enhancing system scalability and operational efficiency.
- Provided critical support for the frontend team by resolving React bugs, maintaining application performance and user experience.

### Full Stack Web Developer | VALCON A/S | London, UK | Sep 2021 – Jan 2022

- Drove full-stack development for a critical cloud-based management system for a major automotive client, ensuring robust functionality and scalability.
- Implemented key features leveraging Angular.js for dynamic frontend experiences and Java Spring Boot with MySQL for high-performance backend logic.

- Provided essential IT support, executed server and database fixes to maintain system uptime, and collaborated cross-functionally with project and product managers to align technical solutions with business objectives.

**Software Engineer Intern | MOTOROLA SOLUTIONS INC. | Glasgow, UK | Jun 2021 – Aug 2021**

- Gained hands-on experience with Command Central Responder - Android, a critical Motorola Solutions product, ensuring adherence to high industry standards.
- Developed and maintained comprehensive unit, instrumentation, and UI tests utilizing Espresso, JUnit, and Appium, significantly contributing to product stability and reliability.
- Engineered a mock server using Kotlin and Ktor to simulate API behavior, streamlining frontend development and testing workflows.

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## PROJECTS

- **Wedding Management System (2025)**
  - Developed a full-stack wedding management system featuring a React and TypeScript web client for comprehensive guest and event management (add/remove guests/events, guest check-in tracking), Tailwind CSS for modern UI, and Supabase for backend services.
  - Engineered QR code generation for guest check-in and built a complementary React Native mobile application for staff to efficiently scan guest QR codes, streamlining event operations.
- **iOS Airplane Landing Calculator (2024)**
  - Developed a specialized iOS application using SwiftUI and Core Data for an aviation client, enabling precise calculation of optimal landing and take-off angles to enhance flight safety and efficiency.
- **AirPlus AI Drone Control (2024)**
  - Engineered an Android application for AirPlus (in collaboration with Sultan Qaboos University) to control DJI drones via the DJI SDK, leveraging Android Kotlin and advanced dependency injection (DI) for robust and real-time operational control.
- **D&P Perfumes Referral Marketing Website (2024)**
  - Designed and developed a full-stack referral marketing platform with TypeScript, React (frontend) and Express.js (backend), featuring a gamified system to incentivize and reward user referrals with escalating discounts. Deployed to Vercel.
- **Oman E-Commerce Web Scraper (2023)**
  - Developed a robust Python script for a financial sector client to efficiently scrape e-commerce data, utilizing Tkinter for a user-friendly GUI and BeautifulSoup and Pandas for data processing.
- **Tamreen Gym App (2023)**
  - Led the redesign and implementation of an Android application for gym class bookings, leveraging Kotlin with MVVM architecture, Firebase for backend services, Retrofit for API communication, and Dagger-Hilt for dependency injection.
- **FOWT Wind LSTM AI (2021-2022)**

- Designed and built a Machine Learning model using Python, Keras, and TensorFlow to accurately predict windspeed spikes for offshore turbines, enhancing predictive maintenance capabilities.
- **NextSteps (2019-2020)**
  - Engineered a Java Android application for SportsLabs technicians to collect and process accelerometer data, ensuring data integrity and streamlining field operations, with Mockito for testing and GitLab CI/CD for automated deployment.
- **Pianissimo (2019)**
  - Developed a full-stack Django website using Python, HTML, CSS, and JavaScript for sharing and reviewing sheet music, featuring a MySQL database for content management and user data.

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## TECHNOLOGIES

- **Mobile Development:** Kotlin (Android SDK, Jetpack Compose, Android Architecture Components (MVVM, ViewModel, LiveData, Room, Navigation, Paging), Coroutines, Retrofit, Hilt/Dagger, Espresso, DJI SDK), Swift (iOS, SwiftUI, UIKit, Core Data), Flutter, Java, Firebase, React Native
- **Back-end Development:** Java (Spring Boot), Go (Gin Framework), Kotlin (Ktor Framework), Python (Django), Node.js (Express.js), Supabase, MySQL, PostgreSQL, RESTful APIs
- **Front-end Development:** React, Angular.js, TypeScript, JavaScript (HTML, CSS), Tailwind CSS, Python (Tkinter)
- **Data Science & AI:** Python (Pandas, Keras, TensorFlow, BeautifulSoup)
- **Low-Level & Embedded:** C++, C, VHDL, Assembly (Familiarity)
- **Testing:** Appium (Mobile UI), JUnit (Unit), Mockito (Unit)
- **Cloud & DevOps:** AWS (EC2, S3, Lambda), Docker, Azure DevOps, Git, CI/CD (Jenkins, GitLab CI, GitHub Actions, AWS Amplify), Vercel, Linux
- **Databases:** MySQL, PostgreSQL, Supabase

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## METHODOLOGIES & TOOLS

- **Project Management:** JIRA, Confluence, MS Project, Zenhub, SDLC (Agile/Scrum)
- **Development Tools:** Git, Maven, Gradle, Postman, Swagger, Figma, Datadog

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## EDUCATION

**UNIVERSITY OF GLASGOW** | Glasgow, UK **Bachelor of Engineering (BEng), Electronic and Software Engineering** | Sep 2017 – Jun 2021

- **Key Focus Areas:** Systems Programming, Algorithms & Data Structures, Database Systems, Secured Software Engineering, Machine Learning, Embedded Systems.