

# Fahad Aba-Alkhail

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## Education

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**University of Ottawa**, B.Sc. in Computer Science

- **GPA: 3.9 out of 4.0**
- **Honours: Dean's Honours List:** 2023 to 2024
- **Coursework:** Computer Architecture, Digital Systems with FPGA, Computational Theory, Java and Python, MongoDB Applications, Comparison of Learning Algorithms, Data Structures and Algorithms

## Experience

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**Fullstack Developer**, Freelance – Ottawa, Canada

- Built and deployed backend services with Java and Python plus MongoDB for small business apps.
- Integrated third party payment gateways and auth services to improve transaction reliability and security.
- Created a responsive React front end and reduced page load times by about 15% percent.

**Cloud Engineer Intern**, MoneyMoon – Riyadh, Saudi Arabia

- Built platform services in Java and Python with MongoDB for lending and repayments.
- Containerized services with Docker and Kubernetes and delivered rolling updates with no downtime.
- Implemented OCI Object Storage backups and Terraform for repeatable environments across dev and prod.
- Designed REST APIs with JWT and reduced average response latency by 20% percent.
- Deployed on AWS using EC2, RDS, and S3 and improved uptime to 95% and cut deployment time by 40% percent.

## Projects

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**Mawaqeeet – Lunar Prayer Companion**

*iOS app built with Swift and SwiftUI*

- Accurate prayer times for many cities with ISNA and Umm Al Qura methods, automatic timezone detection, and offline city data.
- Qibla compass with Core Motion and bearing to the Kaaba, plus visual guidance markers.
- Prayer tracking with seven day and thirty day trends, three states, and fasting tally.
- Menstruation tracking with onboarding and automatic skipping to preserve streaks.
- Smart notifications per prayer with silent, notification, and athan modes.
- Hijri calendar with manual correction, Maghrib based date change, and real time updates.
- Privacy first with city level location only, no ads, and an in app Support Mawaqeeet option.
- Stripe donations through a Node Express backend on Railway with webhooks and Apple Pay ready.

**Director of Platform Engineering** – Telfer Business Journal

- Maintained and improved the official site with consistent uptime and smooth UX.
- Led front end updates in HTML, CSS, and JavaScript for a more accessible and responsive interface.
- Worked with a PHP backend and MySQL to streamline content delivery and cut update time by thirty percent.

## Technologies

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**Languages:** Swift, SwiftUI, C++, Java, MySQL, JavaScript, Python, MongoDB, MySQL, PostgreSQL

**Development Tools:** Xcode, VS Code, Eclipse, VMware, Git, GitHub,