

Faaiz Abdullah

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TECHNICAL SKILLS

Languages/Frameworks: Java, Javascript, HTML/CSS, React, React Native, Node.js, Express.js, Python, C++

Databases: Firebase, MongoDB, Supabase, SQL, MySQL, PostgreSQL

Tools: Git/Github, Agile, RESTful API, Arduino, Postman, AWS S3, Docker, Athena, Cloudformation

PROFESSIONAL EXPERIENCE

AEM | Cloud Engineer Intern

May 2025 – August 2025

- Built multi-account monitoring pipelines tracking **EC2/ECS** performance, data transfer, and vulnerabilities across **AWS** accounts.
- Analyzed **EBS** configurations and recommended rightsizing strategies, eliminating **\$30,000/year** in unnecessary storage costs.
- Automated cost analytics using **AWS Lambda**, **S3**, and **Athena** to enable real-time reporting and insights.
- Migrated legacy datasets from **RDS/EBS** to **S3** via **PowerShell** and **AWS CLI**, reducing storage overhead and operational complexity.

Zebra Robotics | Coding Instructor

November 2024 – August 2025

- Taught **Python** and **Java** to **40+** students, guiding them from basics to building real projects.
- Designed hands-on coding modules, improving student engagement and helping **85%** of students advance to the next proficiency level.
- Partnered with the business development team to pitch programs at **4+** schools and local events, contributing to **40%** growth in student enrollment.

PROJECTS

[ASL Express](#) | Hackathon Award Winner

October 2025

- Won best **hardware** project at **StormHacks** 2025 by building an **AI-powered** platform that eliminates communication barriers for deaf customers at drive-thrus.
- Integrated **Gemini API** for real-time sign language recognition and text-to-speech via **ElevenLabs**, enabling seamless two-way communication.
- Built full-stack web app with Arduino **ESP32** hardware (ultrasonic sensors, buzzers, LCDs) to guide both customer and cashier through the ordering process.

[Study Spotr](#) | Full-Stack Software Developer

August 2024 - Present

- Built full-stack study spot discovery app using **React**, **Node.js**, **MongoDB**, and **AWS S3**, enabling students to find available study locations in real-time.
- Integrated **Mapbox API** to visualize available study spots based on real-time location and status.
- Designed scalable **backend** architecture supporting dynamic spot filtering, file uploads, and real-time location queries to handle growing user base and data volume.

[PharmaBotics](#) | Full-Stack Software Developer

July 2024 - August 2024

- Engineered full-stack medical dispensing system combining **React** frontend, **Node.js** backend, and **Arduino** hardware to automate medication distribution and reduce manual errors.
- Implemented real-time **Firebase** monitoring dashboard that alerts staff to medication status changes instantly, streamlining inventory management.
- Tested **edge-case** behaviors to prevent common user errors and increase system reliability.

EDUCATION

Simon Fraser University | Burnaby, BC

September 2023 - August 2026

Bachelor of Science, Interactive Systems and Computer Science

Concentrations: AI/Data Science, Design and Development for Web and Mobile