

Ahmed Ali

Vancouver, BC • aaa123@sfu.ca • [ahmali3.github.io](https://github.com/ahmali3) • linkedin.com/in/ahmali3

SKILLS AND TECHNOLOGY

C++ | SQL | Java | C | Golang | Haskell | HTML | CSS | Git | Flutter | Firebase | Object-Oriented Programming | Scrum & Agile | Data Structures & Algorithms | REST API | Software Quality Assurance | Distributed Systems

WORK EXPERIENCE

Software Engineer Intern

05/2022 – 08/2022

DigitalOcean

Remote

- Developed an internal tool for employees to manage **Reserved IPs** associated with customer **Droplets**.
- Set up a **CD pipeline** with **Concourse** to deploy a **Docker** containerized tool to staging and production environments using **Kubernetes**.
- Developed a **REST API** using **Go** to access and retrieve **Droplet** data from a **database**.
- Implemented the web **server** and front-end of the tool using **HTML**, **CSS**, and **Go**.
- Implemented **unit tests** and utilized **gMock** for creating mocks, ensuring code quality and reliability while performing **manual tests** of mocked requests to a running instance of the tool.
- Participated in a fully remote **Agile** environment, engaging in meetings and code reviews to ensure seamless collaboration with team members.

QA Developer Co-op

01/2022 – 04/2022

Vecima Networks Inc.

Burnaby, BC

- Developed and maintained **test cases** for GPS-based tracking devices, ensuring compliance with functional requirements and delivering high-quality software.
- Identified and **reported bugs** using **Jira**, actively verifying fixes, and managing issues to resolution.
- Developed **automated testing scripts** using **Sahi Pro**, resulting in more accurate **regression testing**.
- Collaborated closely with cross-functional teams to perform **end-to-end testing** of Web and Mobile Portals, ensuring a seamless user experience with each **release**.
- Contributed to a successful **Scrum** process by actively engaging in planning and estimation, daily Scrums, sprint reviews, and retrospectives.

Software Developer (Volunteer)

09/2020 – 12/2021

MYM – Youth Community Organization

Surrey, BC

- Developed and maintained an **Android/iOS** mobile app using **Flutter** that allows users to check weekly scheduled programs, check prayer times and donate to the organization.
- Implemented a convenient in-app donations feature via **PayPal API** to increase rate of donations by 15%.
- Migrated the organization-wide event scheduling process via **Google Calendar API**, providing web users with a seamless experience while storing previous event photos in **AWS S3**.

TECHNICAL PROJECTS

Light Dip Detector | Academic

02/2023

- Developed a real-time monitoring system for a **distributed sensor network**, using **embedded systems** programming techniques and integrating various hardware components to **process data** in real-time.
- Implemented a robust **UDP**-based communication protocol for an embedded system, utilizing **multithreading** to achieve low-latency communication and improve overall system performance.

I Remember When | Academic

02/2021

- Built a **multiplayer** feature in an **Android** mobile **game** by developing lobby room-creation functionality in **Java** and **Firebase**, allowing for real-time player synchronization.
- Integrated in-game video calling using **WebRTC** via the **Jitsi SDK**, improving user interaction.
- **Led** a team of four as **Scrum Master**, facilitating weekly meetings to address team dynamics, and coaching team members to complete unfamiliar tasks during each sprint.

EDUCATION

Bachelor of Science - **Computing Science**

05/2017 – 04/2023

Simon Fraser University