

FAROUQ SYED ABDALI

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EDUCATION

Carleton University

Ottawa, ON

Bachelor of Computer Mathematics

Sep. 2022 – Apr. 2026

- **Activities:** Carleton Student Engineering Society, Carleton Planetary Robotics Team, IEEE, Systems and Computer Engineering Society
- **Relevant Coursework:** Discrete Structures I & II, Data Structures and Algorithms, Linear Algebra

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, MySQL, Java, C, HTML/CSS

Frameworks: React, Node.js, Vue, Flask

Developer Tools : Git, Docker, Google Firebase, VS Code, Visual Studio, PyCharm

Certifications: Microsoft Azure AI Fundamentals

EXPERIENCE

Software Developer

Sep 2018 – June 2022

FIRST Robotics Club

Mississauga, ON

- Led a team of software engineers at the FIRST Robotics Club to design robotics software in **Java** for a hand-built robot at FIRST Robotics competitions
- Organized and managed multiple projects and teams to enable teamwork and collaboration, improving productivity and reliability of project deadlines and responsibilities
- Directed the use of **Git** to ensure codebase consistency and coordination
- Established an organizational structure to allow members to be assigned to different teams aligned with their interests and strengths, improving efficiency and productiveness by 80%

PROJECTS

SwiftShare | Python, Socket, Network Architecture

- Developed a distributed Peer-to-peer (P2P) file-sharing system using the TCP/IP networking stack that allowed decentralized file transfer over **10+** nodes.
- Utilized multi-threading to handle **50+** concurrent file transfer requests with enhanced network efficiency and maintained high performance under load.
- Implemented dynamic peer management to allow nodes to join/leave the network within 2 seconds and maintain a list of **10+** peers using real-time broadcasting.
- Designed effective file chunking and reassembly, splitting large files into 512-byte chunks to be transferred optimally, ensuring **0%** loss in reassembly.

RetailVerse | Javascript, React, MySQL, Node.js

- Developed a responsive full-stack POS web application with **React** on the front-end and **Node.js/Express** for the back-end, leading to a 25% increase in transaction processing speed.
- Designed and managed a **SQL database** for efficient handling of transactions, product management, and administrative functions.
- Engineered a Firebase-based security module for robust user authentication and admin control, reducing unauthorized access incidents by **100%**.

ChatterBox | Javascript, React, Node.js, Firebase

- Engineered a real-time chat application using **React** for the front-end and **Node.js** for back-end API services.
- Leveraged **Firebase** for sophisticated user authentication and live data handling, enabling real-time messaging and session management for **150+** active users without compromising performance.
- Crafted a responsive UI with React, enhancing user experience and interactivity across various devices and platforms.
- Executed unit and integration tests that prevented 10+ major issues from reaching production, ensuring seamless functionality and reliability.