

# Farouq Syed Abdali

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## EDUCATION

### Carleton University

Ottawa, ON

*Bachelor of Engineering, Software Engineering with Co-op*

Sep. 2022 – Apr. 2027

- **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

## EXPERIENCE

### Software Developer

Sep 2018 – June 2022

*FIRST Robotics Club*

*Mississauga, ON*

- Implemented robust API interfaces for joystick and motor control systems, enabling seamless interaction between hardware and software components.
- Utilized object-oriented programming (OOP) methodologies to develop modular application frameworks, enhancing code reusability and system scalability.
- Leveraged Git for version control to efficiently track software iterations, ensuring code integrity and team collaboration through systematic pull requests and code reviews.
- Designed and maintained front-end interfaces for real-time robot monitoring, applying user-centric design principles for enhanced operability.

## PROJECTS

### Full Stack Point of Sale (POS) System | *Javascript, React, MySQL, Node.js*

Dec 2023 – Present

- Developed a responsive full-stack POS web application using React for the frontend and Node.js/Express for the backend.
- Designed and managed a SQL database for efficient handling of transactions, product management, and administrative functions.
- Implemented a secure user authentication system and admin panel for transaction oversight using Firebase.
- Integrated RESTful API endpoints for dynamic data handling and CRUD operations on product and transaction data.

### React Chat App | *Javascript, React, Node.js, Firebase*

Apr. 2023 – May 2023

- Engineered a real-time chat application using React for the front-end and Node.js for back-end API services.
- Implemented user authentication and real-time database features with Firebase to manage live data streaming and user sessions.
- Crafted a responsive UI with React, enhancing user experience and interactivity across various devices and platforms.
- Applied best practices in code versioning, using Git for source control and collaborative development.

### Sudoku Solver | *Java, Swing, Algorithms*

May 2023 – May 2023

- Architected a Sudoku solver application in Java, featuring a Swing-based GUI for interactive puzzle input and solution display.
- Implemented backtracking algorithms for efficient puzzle solving and designed a user-friendly interface for ease of use.
- Developed validation checks to ensure entered puzzles are solvable, enhancing the robustness of the application.
- Integrated a feature to generate random Sudoku puzzles of various difficulty levels, adding to the utility and user engagement.

## TECHNICAL SKILLS

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

**Frameworks:** React, Node.js

**Developer Tools:** Git, Docker, Google Firebase, VS Code, Visual Studio, PyCharm, IntelliJ IDEA, Eclipse

**Libraries:** OpenCV, NumPy, Axios