SAIRAJ JADHAV

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Education:

Dalhousie University   *Halifax, Nova Scotia*
Bachelor of Computer Science   *Expected graduation: Sept 2026*

Technical skills:

Proficient Languages: Java, Python, SQL, JavaScript, HTML/CSS, Kotlin, NumPy, Matplotlib.

Developer Tools: Git, VS Code, Visual Studio, PyCharm, IntelliJ, Android studio, Wireshark

Applications: Data Structures and Algorithms, Object Oriented Programming, Web Development

CO-OP Status:

- Available for first co-op term in Fall 2025.
- Will have completed 4 Academic terms as a full-time student.

Experience:

Assistant Supervisor Grawood – Dalhousie Student Union: (Sept 2021 – March 2024)
- Contributed to operations management at **The Grawood**, an on-campus student run restaurant in Dalhousie University.
- Streamlined day-to-day activities through cross-departmental collaboration.
- Implemented effective communication strategies to enhance operational efficiency.
- Coordinated workflows to optimize productivity, memorized more than 30+ items on the menu.
- Developed skills in organizational coordination and personnel management.

<u>Certification:</u>

Cybersecurity Fundamentals – ShiftKey Labs   **Foundational Certification | Offline | 8 Hours | Jan 2024**
- Completed hands-on training covering information security, threat analysis, data protection, and application security.
- Gained practical exposure to cybersecurity frameworks, ethical hacking, and legal compliance principles.
- Developed skills in cybersecurity incident response, encryption & hashing techniques, and compliance standards**.**
- Completed Python Zero to Hero Program in 2021 on Udemy by Andre Liu.

<u>Projects Experience:</u>

Dalhousie University – Nova Scotia Health Authority

Junior Software Developer | Jan 2024 – Apr 2024
- Built a geriatric-focused web application using HTML, CSS, JavaScript, React, delivering an accessible and intuitive user interface for healthcare professionals.
- Integrated custom drug-related modules based on stakeholder feedback, improving usability for medication review and decision-making.
- Developed and documented RESTful APIs using Express.js, expanding backend functionality; practiced C# for server-side logic.

- Collaborated via GitHub for version control and team workflow, following agile development practices.

Python and MySQL Formula One Database:
- Designed and implemented a Python and MySQL database that utilizes real time data from Kaggle and produces information to the user in the form of real- time messaging.
- Developed a secure and user-friendly interface for seamless **client-server communication.**
- Successfully managed and maintained the database lifecycle, utilized varying API's, highlighting strong problem-solving skills and meticulous attention to detail.

Generative AI Hackathon, Dalhousie University (3rd Place) | Python, Flask, SQL, Ollama:
- Developed an unbiased emergency room priority queue system to address biases and promote fairness in patient treatment.
- Utilized Python and Ollama open-source model in the project to streamline patient triage and communication.
- Implemented API integration for generating formatted messages, enhancing patient-nurse-server interactions.
- Developed a novel approach involving a locally hosted server to dynamically manage patient queues based on symptom severity, utilizing Python, Flask, SQLAlchemy, and Ollama.

Huffman Tree Implementation in Java and Python | Java, Python, Data Structures and Algorithms:
- Developed a Huffman coding algorithm to construct a binary tree for efficient data compression, where frequently occurring characters are represented by shorter variable-length codes.
- Implementation included building the tree based on character frequency in the input data, encoding the data using the generated Huffman codes, and decoding the compressed data back to its original form.
- This project demonstrates expertise in object-oriented programming, data structures, algorithmic design, and practical problem-solving skills.

QuickCash | Java, JSON, Android Studio, Firebase   **Sept 2024 – Dec 2024**
- Developed an Android application enabling real-time job postings and job-seeking functionalities.
- Designed live location tracking, dashboards for employers and job seekers, and notification systems for new opportunities.
- Implemented secure user authentication using Firebase and utilized REST APIs for real-time data retrieval.
- Enhanced user experience with efficient data interaction and seamless navigation features.

Awards and Extracurriculars:

- **Dalhousie Entrance of 3000$:** Received for community service and academic achievements, displaying leadership and extracurricular participation.
- **U14, U16, U19 Cricket Team Vice-Captain, Hiranandani Foundation School:** Led and supported a 16-player roster as the vice-captain. Demonstrated strategic acumen by making tactical decisions in competitions, contributing to the team's success. Overseeing coordination of practice sessions and Academics.

NGO Collaboration with Aditya Yojna Foundation: **(Sept 2018 – Jan 2019)**
- Worked with **Aditya Yojna Foundation, Thane, India** to contribute to community welfare initiatives, focusing on providing essential resources such as food and clothing and books to underprivileged populations.
- Played a pivotal role in coordinating efforts, fostering partnerships, and ensuring the successful implementation of projects aimed at addressing basic needs and improving the quality of life for vulnerable communities.