

Aditya Singh

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EDUCATION

Dalhousie University

Bachelor of Computer Science (Co-op), GPA: 3.94

September 2023 – May 2027

- Sexton Scholar (2023 – Present) and recipient of the Dalhousie In-Course Scholarship.
- Dean's List (Fall 2023, Winter 2024): academic excellence and achieving a cgpa of 3.7+ in consecutive semesters.
- Relevant Courses: Data Structures & Algorithms, Systems Programming, Database Systems, Software Development, Discrete Math in Computer Science, Practical Data Science, Experimental Robotics.

EXPERIENCE

Administrative Assistant

Sep 2023 – Aug 2024

Tidal Car Rentals

Dartmouth, NS

- Maintained and optimised the company's website using Wordpress, receiving 250+ visitors weekly and reducing loading times by 25%
- Streamlined documentation processes by developing an automated script that created and linked Google Drive folders for each active vehicle, enhancing organization and reducing manual workload.
- Created internal documentation and SOPs for administrative tasks, reducing onboarding time by 40% and eliminating repetitive queries.
- Managed customer support, effectively addressing over 50 inquiries weekly, ensuring high level client satisfaction.
- Organized and coordinated 20+ vehicle calendars and booking schedules, ensuring smooth daily operations.

PROJECTS

LandSat Reflectance Project | *Python, Flask, C#, JavaScript, CSS*

September 2024

- * Developed a web app that supports the comparison of ground-based observations with LandSat Data by allowing users to define a target location, receive notifications when LandSat is to pass over that location, and access and display relevant LandSat Satellite Data.
- * Developed a Flask-based backend to handle user queries, retrieve Landsat imagery, and process geospatial data.
- * Integrated a Google Maps API interface in the front-end to allow users to select locations for satellite imagery.

Compiler Frontend for JSON Parsing | *Python*

November 2024

- * Developed the front end of a compiler using a DFA-based scanner for lexical analysis and a recursive descent parser for syntactic and semantic validation of JSON input.
- * Implemented tokenization, parse tree generation, and semantic checks to detect errors like duplicate keys and inconsistent data types, with clear outputs and detailed error reporting.
- * Generated parse trees for structured JSON representation, providing a visual aid for debugging and further AST (Abstract Syntax Tree) transformations.

Freakbob | *Discord Bot | Python, Discord API, SQLite*

February 2025

- * Deployed a feature-rich Discord bot to automate administrative tasks such as user moderation, role assignments, and message filtering, in a server with 220 members.
- * Worked with Discord API to implement commands for banning, kicking, muting users and managing roles.
- * Implemented automated logging and a warning system, reducing manual moderation workload by 60%.
- * Deployed the bot on a Pylex cloud server for 24/7 uptime, ensuring consistent availability and performance.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS

Frameworks: React, Node.js, Flask, JUnit, WordPress

Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: pandas, NumPy, Matplotlib