

# Arhaan Wazid

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## EDUCATION

### Bachelor of Computer Science Honors with Specialization in AI and Machine Learning

September 2022 – April 2026

(GPA: 3.96/4) | Carleton University, Ottawa, ON

- *Relevant Courses:* Abstract Data Types and Algorithms, C Systems Programming, C++ and Java Object-Oriented Programming, Database Management Systems, Web Applications, Discrete Structures I/II
- *Awards and Honors:* Deans' Honor List 2022-2023 and 2023-2024, Academic Excellence Entrance Scholarship

## SKILLS

<b>Coding Languages</b>	Java, C/C++, Python, SQL, JavaScript, HTML/CSS, JSON, MongoDB, Scheme
<b>Frameworks/Tools</b>	Linux/Unix, VS Code, Jira, Jenkins, PostgreSQL, Node.js, JavaFX, PowerShell, Python Slash
<b>Soft Skills</b>	MS Office, Adaptability, Leadership, Time management, Teamwork, Communication

## WORK EXPERIENCE

### Teaching Assistant | Carleton University, Ottawa, ON

January 2025 – Present

- Assisted in Java Object-Oriented Programming (OOP) class as a Teaching Assistant, supporting student learning through strong knowledge of Java and core programming concepts
- Conducted tutorials and office hours, clarifying key OOP concepts like abstract classes and polymorphism
- Supported students on the class discussion board by helping debug Java code, explaining programming concepts, and offering guidance on object-oriented design principles

### Software Developer | Ford Motor Company, Ottawa, ON

September 2024 – December 2024

- Automated 40+ functional tests for in-vehicle infotainment and network systems using Python and the Slash framework, boosting efficiency and increasing testing coverage by 70%
- Managed in-vehicle infotainment system setup and test environment configuration on a Linux Ubuntu machine, ensuring accurate connections and PC settings for outcome verification by the Stability Monitor team.
- Conducted manual and automated tests to track system failures, applied C++ expertise to debug issues, and raised JIRA tickets for developers to address system-related problems

### Data Analyst | Shared Services Canada, Ottawa, ON

May 2024 – August 2024

- Performed research and data analysis on various AI technologies, creating Power BI visualizations to support the development of a business request AI for small departmental agencies in the government
- Collaborated with cross-functional teams to compile and analyze AI-related insights, improve the AI chatbot interface for better user experience, and contribute to project enhancements
- Employed Rust and JSON to efficiently extract and process data from CSV files, and vectorized the data for integration into AI models

### Teaching Assistant | Carleton University, Ottawa, ON

September 2023 – January 2024

- Leveraged Python proficiency as a Teaching Assistant in Carleton University's "Introduction to Computer Science" course, contributing to the success of the program
- Answered questions regarding complex topics and demonstrated outstanding problem solving to support 130 students
- Aided in grading assignments and midterms, fostering an effective learning environment with meticulous attention to detail

## PROJECTS

### Movie Locator | Node.js, Express.js, JavaScript, HTML, CSS, Handlebars.js, SQLite

April 2024

- Developed a movie website with user authentication, allowing users to explore films, create accounts, and manage favorite selections using SQLite 3
- Crafted frontend using HTML, CSS, and Handlebars.js, ensuring intuitive navigation and appealing layout

### Multi-thread Ghost Simulator | C, Ubuntu VM, LINUX Terminal Environment

December 2023

- Collaborated on creating a ghost-hunting simulator, developing multi-threaded segments to improve speed and functionality in a Linux environment
- Utilized dynamic data structures and Valgrind to optimize memory usage and resolve potential leaks.
- Enhanced code modularity with 30+ functions, implemented ghost action logs and unit tests, and streamlined the build process with Makefiles for efficient troubleshooting

### Shopping Cart | Java, Javafx

April 2023

- Created a program allowing users to add items with live updates, showcasing total spending and popular items
- Streamlined the code by object-oriented programming skills such as inheritance, abstraction, and encapsulation
- Utilized various types of data structures, such as lists to organize stock items and items within the cart