

# Arhaan Wazid

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## EDUCATION

### Carleton University

Ottawa, ON

*Bachelor of Computer Science (Honours); GPA: 11.5/12*

*Sept. 2022 – Dec. 2026*

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

## EXPERIENCE

### Systems Software Developer Intern

May 2025 – Present

*Ford Motor Company*

*Ottawa, ON*

- Developed and maintained automated system-level tests for infotainment features using **Python**, increasing reliability and reducing manual test effort across in-vehicle systems
- Focused on validating Enhanced Connectivity Gateway (ECG) and the Telematics Control Unit (TCU), ensuring seamless data exchange, network stability, and integration with the infotainment platform
- Utilized tools such as **TestRail** for test case management, **PuTTY** for SSH-based hardware verification, and **Git/GitHub** for version control and collaborative script development

### Teaching Assistant

Jan 2025 – April 2025

*Carleton University*

*Ottawa, ON*

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

### Software Developer Intern

Sept 2024 – Dec 2024

*Ford Motor Company*

*Ottawa, ON*

- 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 operating system** (Ubuntu), 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/C++** expertise to debug issues and raised **JIRA** tickets for developers to resolve system-related problems

### Data Analyst Intern

May 2024 – Aug 2024

*Shared Services Canada*

*Ottawa, ON*

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

## PROJECTS

### t:slim Insulin Pump | C++, QT, Qt Creator, Ubuntu VM

April 2025

- Built a real-time **Qt-based** GUI to simulate insulin delivery, including modular components for bolus, CGM, and safety controls
- Implemented **Observer** and **Mediator** design patterns using **Qt signals/slots** to coordinate logic and UI interactions
- Developed extensible, testable code following **object-oriented principles**, enabling reusable modules across **5+** classes

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

April 2024

- Developed a dynamic movie website with user authentication, enabling users to explore films, create accounts, and manage favorite selections using **SQLite3**
- Designed an intuitive frontend with **HTML**, **CSS**, and **Handlebar.js** to ensure seamless navigation and an aesthetic layout

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

Dec 2023

- Collaborated on a ghost-hunting simulator using multithreading to enhance performance and responsiveness 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

## SKILLS

**Languages/Tools:** Java, C/C++, Python, SQL, JavaScript, HTML/CSS, JSON, MongoDB, Scheme

**Frameworks:** Node.js, JavaFX, Flask, PowerShell, Python Slash, Jenkins, PostgreSQL, Qt

**Developer Tools:** Git, VS Code, Testrail, Jira, PyCharm, IntelliJ, Racket, Linux/Unix (Ubuntu), PuTTY, MS Office

**Soft Skills:** Adaptability, Leadership, Time management, Teamwork, Communication