

# Caleb Mulugeta

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## EDUCATION

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### Carleton University

Ottawa, ON

*B.S Computer Science Honours, Specialization: AI and Machine Learning*

*GPA: 3.9/4.0 | Expected: April 2028*

- **Coursework:** Data Structures and Algorithms, Object Oriented Programming (Java), Systems Programming, Web Applications, Software Engineering(C++), Statistics, Python
- **Involvements:** Operation Chair ColorStack-CU, Carleton Computer Science Society Volunteer
- **Awards:** Dean's Honor List, C. Gibson Scholarship

## TECHNICAL SKILLS

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- Java, Python, C, HTML, CSS, JavaScript, PyTorch, TensorFlow, Git, Node, TypeScript, React, Express, MongoDB

## EXPERIENCE

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### Incoming Software Engineer Intern | Parallel

January 2026

- Will contribute to backend development with a focus on authentication, and currency compatibility using Java and Spring Boot.

### Software Engineer Intern | Doro

December 2025

- Working on backend API development using Python, FastAPI, and PostgreSQL. Aswell as Firebase for authentication and database integration.

### Software Developer | Carleton Computer Science Society

April 2025 – August 2025

- Developed a reusable, component based layout framework with TypeScript and React, that standardized UI behavior across 10+ production pages and improved reliability for a platform used by over 1,000+ students.
- Refactored an existing TypeScript codebase by replacing multiple page specific headers with a centralized, reusable layout component, eliminating duplicated UI logic by 25% and increasing maintainability.
- Collaborated within a Git based CI/CD environment alongside a 20 member engineering team, contributing to an open source repository, improving software quality through code reviews and test automation.

### Teaching Assistant (Java) | Carleton University

September 2025 – Present

- Supported 100+ first year CS students in mastering Java, Object Oriented Programming, interfaces, data structures and algorithmic complexity, improving student comprehension through live code walkthroughs.
- Conducted weekly office hours, providing 10–15 individualized technical debugging sessions focused on compiler errors, logical correctness, and code optimization strategies.
- Assessed 200+ code submissions using grading rubrics. Delivering detailed feedback on correctness, style, documentation, and algorithm choice, ensuring consistency and fairness in assessment.

## PROJECTS

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### Brain Tumor Classifier | Python, Pytorch, Matplotlib, Torchvision, Jupyter Lab

November 2025

- Built a convolutional neural network using PyTorch's nn.Sequential API to classify MRI brain images into four tumor types, trained for 25 epochs on the GPU when available.
- Achieved 96% test accuracy, validated through forward pass evaluation, average test loss calculation, and visualization of model predictions and sample MRI images using Matplotlib.

### Car Dealership Management GUI | Java, MVC, OOP, GUI Development

May 2025

- Engineered an interactive car dealership simulator in JavaFX, featuring live inventory tracking, cart based sales management, and automated revenue analytics.
- Applied Java OOP fundamentals (classes, inheritance, encapsulation) and implemented strict MVC separation between model and GUI logic.