Tawana Hondonga

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EDUCATION

Carleton University

Ottawa, ON, Canada

Bachelor of Science in Computer Science, Minor in Business, GPA: 4.0/4.0

April 2026

- Coursework: Data Structures & Algorithms, Systems Programming, Software Engineering, Web Applications, Discrete Math, Object-Oriented Programming, Linear Algebra
- Awards: Carleton University Faculty Scholarship (\$16,000); Dean's Honour List (2022-Present)
- Affiliations: ColorStack Member (2024-Present)

EXPERIENCE

Incoming AI/ML Engineering Co-op

 $Sept.\ 2024-Dec.\ 2024$

Raven Connected

Ottawa, ON

Remote, USA

Software Engineering Fellow

 $Jul.\ 2024-Present$

 $Headstarter\ AI$

- Engineered 5+ diverse AI applications and APIs utilizing Next.js, OpenAI, Pinecone, StripeAPI.
- Led a team of 4 engineering fellows in developing and deploying 3 projects using MVC design patterns.
- Implemented Agile methodologies, CI/CD pipelines, and microservice patterns under mentorship of Amazon, Bloomberg, and Capital One engineers, improving project efficiency.

Undergraduate Teaching Assistant

Sept. 2023 – Apr. 2024

Carleton University

Ottawa, ON

- Developed and presented weekly Python code demos and presentations to over **75+** attendees, improving course content comprehension.
- Conducted weekly office hours, providing personalized assistance to 700+ students on course material.
- Assessed 60+ student assignments weekly, providing constructive feedback that improved average student performance.

PROJECTS

iPantry () | React, Next.js, Firebase, GCP, Gemini API, Vercel, CI/CD

- Engineered an AI-powered pantry tracker app using Gemini API, generating personalized recipe suggestions with 85%+ accuracy based on available ingredients.
- Implemented Firebase and GCP for backend services, deploying to Vercel with CI/CD, reducing deployment time by 80%+ and improving app reliability.

Migraine Classification Neural Network () | Python, TensorFlow, Pandas

• Leveraged TensorFlow 2.0 and Pandas to develop a neural network that classifies seven types of migraines with 93% accuracy, analyzing patient data and symptoms.

Phantom Pursuit O | C, Linux, Makefiles, Valgrind

- Designed and implemented a sophisticated ghost hunting simulation in C, utilizing advanced memory management techniques to create a responsive environment with 4 concurrent hunter threads and 1 ghost thread
- Implemented multi-threaded programming in C to manage the concurrent operation of 5 entities (4 hunters, 1 ghost), improving simulation realism and performance by 55%+
- Optimized development workflow using Valgrind for memory leak detection and Makefiles for automated compilation, reducing debugging time by 90%+ and improving code stability.

CERTIFICATIONS

AWS Certified Cloud Practitioner | AWS |

July 2024

Machine Learning Specialization | DeepLearning.AI |

August 2022

TECHNICAL SKILLS

Languages: C/C++, Java, Python, JavaScript, HTML/CSS, Visual Basic

Frameworks & Databases: Node.js, Next.js, Express.js, SQL, SQLite, PostgreSQL, Firebase

Developer Tools: AWS, GCP, Docker, Git, Vercel, Valgrind, Linux, Powershell, OpenStack, pgAdmin

Libraries & APIs: React, Material UI, Selenium, JavaFX, Websockets, Pandas, TensorFlow, Keras, Scikit-Learn,

Gemini API, OpenAI API