Alec Ames

BSc in Computer Science | Software Engineer | Full Stack Developer

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EDUCATION

Honours Bachelor of Science in Computer Science
Brock University, St. Catharines, ON — GPA 4.0

SEPTEMBER 2019 - DECEMBER 2023

- **Relevant Courses:** *ANNs, OOP, Software Engineering, Mobile Dev., Cybersecurity, Graphics, Databases, Computer Architecture*
- Achieved highest course grade in Computer Media & Digital Audio.
- Developed projects using Java, Python, JavaScript, Svelte, C/C++, SQL, and PyTorch

PROJECTS

<u>Deep Learning Drum Classifier</u> — *Python, PyTorch, Numpy*

- Built an AI model for classifying drum samples into specific instruments.
- Achieved 95%+ accuracy on unseen test datasets.

<u>Markdown Viewer</u> — *Tauri, Rust, Svelte, JavaScript*

- Developed a standalone markdown viewer for Windows 11.
- Utilized the Tauri framework with Rust for a secure, lightweight desktop application and Svelte for the UI, emphasizing performance optimization and user-friendly design.

<u>QuickCalc</u> — *Android Studio, Kotlin, Jetpack Compose*

- Built an intuitive and lightweight calculator application for WearOS devices, leveraging modern Android development practices and wearable technology.

<u>NOTL Museum Timeline</u> — *SvelteKit, JavaScript, Supabase*

- Lead a team to design and build a responsive web application to showcase the history of Niagara-on-the-Lake for the local museum, improving visitor engagement and accessibility.
- Deployed both to web and as an Android application that achieved a 5-star rating on the Google Play store.

<u>Chess Game AI</u> — *Python, Numpy, Pygame*

- Developed a chess game featuring a minimax AI algorithm with alpha-beta pruning.
- Built with Python and Numpy, prioritizing algorithm development, and heuristic analysis.

<u>VoiceNote</u> — *Android Studio, Java, Google Speech API*

- Developed and deployed speech recognition app using Java and Android Studio.
- Integrated GCP Speech API, focused on UI/UX design principles and accessibility standards to ensure positive feedback on Google Play, achieving a 5-star rating.

EXPERIENCE

Canadian Tire Financial Services, St. Catharines, ON *Bilingual Customer Service Representative*

JUNE 2020 - PRESENT

- Accommodate 30+ eCommerce customers per day across multiple brands, assisting customers with order and technical inquiries

SKILLS

Technical Proficiencies:

Languages: Python, Java, JavaScript, Kotlin, Rust, C/C++

Web Development: HTML, CSS/SCSS, React, Svelte/SvelteKit, Node.js, WebSockets, GraphQL

Database & Backend: SQL, Supabase, GCP, AWS, PyTorch

Tools & Platforms: VS Code, Git, Android Studio, Tauri, Linux, Nginx, Bash

Networks: Cyber security, network systems, infrastructure design

Design & Prototyping: Adobe CC Suite, Figma

Bilingual:

English (Fluent), French (Fluent)

Teamwork and Leadership:

Led an eight-member software engineering team, fostering a collaborative environment and driving project success.

INTERESTS

Home networks, music production, hiking, kayaking

AWARDS

Dean's Honour List - 2021, 2022
Recognized for academic excellence with an average of 80% or higher in the Faculty of Mathematics and Science.

Faculty's Choice Award - Brock CSC Game Jam - 2023
Created a puzzle game in under 15 hours using C# and GameMaker. Voted best game overall.