

Alexander Eckardt

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EDUCATION

McMaster University

Bachelor of Applied Science in Computer Science (Co-op), 3.9 GPA

Graduating May 2025

Hamilton, ON

- Dean's Honor List, 3x recipient
- Courses include: *Data Structures and Algorithms, Applications of Machine Learning*

Google: AI Essentials

5 Course Certification - including "Maximizing Productivity through AI", "AI Responsible Use"

July 2024

Coursera

Google: IT Automation with Python

6 Course Certification - including "Configuration Management", "Automating Real World Tasks"

Apr. 2021

Coursera

WORK EXPERIENCE

Business Intelligence Data Analyst

Samos Insurance

May 2024 – Sep. 2024

Kitchener, ON

- Developed critical full-stack features in product administration system using React, Typescript and AWS services.
- Enhanced user tracking and analytics on customer site resulting in a **30%** increase in actionable insights. Goog
- Responsible for the creation of a PostgreSQL database on AWS Aurora, enabling reporting of over **50** new clients.
- Created over **20** RESTful API's using AWS Lambda for various interactions with our policy databases.
- Administrated and managed tasks and user stories on company JIRA board during **biweekly** sprint meetings.

Operations Lead

Orbital Quantum

May 2023 – Dec. 2023

Toronto, ON

- Designed and implemented intuitive automation tools utilizing full-stack development techniques, speeding up various administrative tasks by up to **50%**.
- Utilized Artificial Intelligence to expedite patent drafting processes, resulting in a **40%** reduction in costs by minimizing the need for lawyer consultations.
- Modernized and enhanced company web applications to integrate seamlessly with **Google Firebase** for advanced user authentication and data management capabilities.

Junior Software Engineer

Yarowa (formerly JAROWA AG)

June 2022 – Sept. 2022

Zug, Switzerland

- Engineered anonymization algorithms in **12** weeks, enhancing data security for machine learning applications.
- Pre-processed data using Python and Microsoft Excel to ensure data quality of over **3000** transaction records.
- Collaborated within **AGILE** framework, honing communication, documentation and project delivery skills.

Teaching Assistant (x2)

McMaster University

Sept. 2023 – Dec. 2023

Hamilton, ON

- Assisted in the instruction of courses *Introduction to Programming and Binding Algorithm Theory to Practice*.

PROJECTS

Pinball Pioneer | Indie Video Game Winner of the GMTK 2023 Game Jam

July 2023

GMS2, Aseprite, Git, Audacity, Web Design

- Solo-developed a puzzle game in entirety within **48 hours**.
- Finished *7th out of 7000 (Top 0.1%)* global submissions.
- Envisioned, designed, built and tested all game systems, assets and over **10** levels.

Titan Quest | *Git, React, JavaScript, Video Editing, GML, Audio Editing*

Oct. 2023

- Submission for the NASA Space-Apps 2023 hackathon's interactive learning application for children category.
- Demonstrated strong leadership by managing project scope and resources, as well as managing software development - effectively meeting all submission requirements.
- Led a cross-functional team of 6 developers and designers to create and deliver project within a 48 hour deadline.
- Presented features of product to hackathon committee and created a product showcase video.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, GML, L^AT_EX, Java, C#, OpenGL, SQL, C/C++

Development Tools: Azure, git/Github, AWS, Google Cloud, Firebase, Supabase, Framer, Docker, Figma, Jupyter

Web Technologies: React, HTML/CSS, Node.js, NextJS, Astro, WordPress, SwaggerAPI, Lambda Functions, MUI

Libraries: NumPy, Pandas, SQLite, Matplotlib, NLTK, scikit-learn