

# 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: "Natural Language Processing", "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

### Software Developer Intern

*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.
- Responsible for the creation of a PostgreSQL database on AWS Aurora, reducing read latency by **20%**.
- Created over **20** RESTful API's using AWS Lambda for various interactions with our policy databases.
- Setup business insights using Google Analytics, Google Tag Manager and Microsoft Clarity
- 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

### MeetingBot | Meeting Bot API for Teams, Meets and Zoom

Jan. 2025

*AWS, TypeScript, Docker, Terraform, Graphite, Playwright, Puppeteer, React, Next.js, Linear*

- Developed a scalable meeting agent API to retrieve meeting recordings for services to utilize.
- Developed for serverless architecture using Docker and AWS ECS
- Introduced Linear tool for Agile development and intra-team communication.
- Collaborated in a team of 5 for this final end-of-degree Capstone project.

### 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 entirely 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.

## TECHNICAL SKILLS

**Programming Languages:** Python, JavaScript,, Java, C#, OpenGL, SQL, C/C++

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

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

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