Zach Legesse

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EDUCATION

University Of Guelph — April 2027
Bachelor of Computing in Computer Science (Co-op), Minor in Mathematics — *Guelph, ON, Canada*

- **Relevant Courses**: Data Structures, Algorithms, Object-Oriented Programming, Operating Systems, Reinforcement Learning, Cryptography, Statistics, Linear Algebra, Mobile Computing
- **Overall GPA**: 3.8/4.0 – Dean's Honors List Member

EXPERIENCE

RBC — January 2026 – April 2026
AI Engineer Intern | Python, LangChain, LangGraph, RAG, LLM — *Toronto, ON, Canada*

- Building GenAI agents to automate 80% of auditing workflows, allowing auditors to focus on high-value tasks

ApplyBoard — May 2025 – Sept 2025
Software Engineer Intern | Typescript, AWS (CDK, VPC, X-Ray) — *Waterloo, ON, Canada*

- Developed backend infrastructure and DevOps solutions as part of ApplyBoard's Integration team
- Led the development of a serverless CSV export system using TypeScript, AWS S3, Lambda, and DynamoDB to replace a complex legacy system, **reducing AWS costs by $20,000+ annually**
- Implemented AWS X-Ray tracing across **2,500+ AWS Lambda Functions** and **50+ API gateways**, improving observability and reducing service dependency investigations from **3+ hours to ~15 minutes**

Ten Thousand Coffees — May 2024 – Dec 2024
Software Engineer Intern | Typescript, Angular, Express, MongoDB, GCP — *Toronto, ON, Canada*

- Built and took ownership of **20+ full-stack** product features and fixes as a part of a cross-functional team
- Championed the implementation of MongoDB transactions to resolve a race condition in an on-demand translation process, reducing peak monthly translation costs from **$2000 to $20**
- Developed a GitHub Actions workflow to delete outdated Google App Engine versions, resolving a recurring team blocking pipeline failure and cutting manual intervention time by **45%**

Twitch — May 2020 – Jan 2023
Content Creator — *Remote*

- Achieved **1,500,000+ views** and **$5000+ revenue** in the gaming space by implementing a data-driven strategy
- Reached the **top ~1.67% of creators** (out of ~8 Million) by optimizing content performance through cross-platform data analysis and A/B testing

PROJECTS

Imaginate - AI Literacy App
Python, Docker, MongoDB, Google Cloud, Flask, Typescript, React — *Repository | Demo*

- Led a team of 3 to build a daily game using **React** and **Flask**, teaching users how to identify AI vs. real images
- Engineered a CI/CD pipeline using GitHub Actions and Docker to automatically build and deploy a containerized API to Google Cloud Run, **reducing feature deployment time by 60%**
- Optimized an image generation pipeline by implementing a ComfyUI Web-Socket, **cutting image generation times from 20 minutes to 20 seconds**

IOT Solar Tracker
C++, Google Cloud, JavaScript, Express — *Repository | Demo*

- Engineered a wifi-connected solar tracker for a client, increasing average solar panel energy output by **25%**
- Developed and deployed a scalable remote update system on Google Cloud, using a containerized Express API to reliably deliver C++ binaries and automate remote device updates

TECHNICAL SKILLS

Languages: Python, TypeScript, C/C++, JavaScript, HTML/CSS, Java, SQL, Ruby, C#
Technologies: Infrastructure as Code (IAC), CDK, Docker, Git, CI/CD, Amazon Web Services (AWS), Google Cloud (GCP), Node.js, Mongoose, JUnit, Jest, Deno, Cursor, GitHub Copilot