

EDUCATION

**McMaster University** Sept 2021 — Apr 2026  
*Bachelor of Computer Science | GPA: 4.0*  
• Provost Honour Roll and Dean’s honour roll for achieving a GPA of 4.0

EXPERIENCE

**Software Engineer** Sep 2025 — Present  
*Greptile | Next.js, TypeScript, React* Part-time, Remote  
• Improving product performance across the stack through frontend optimization, caching strategies, and enhanced backend architecture.

**Software Engineering Intern** May 2025 — Aug 2025  
*Vidyard | TypeScript, ElysiaJS, Ruby on Rails, Vue.js* Remote  
• Collaborated with a fulltime team to maintain and enhance the core platform dashboard using **Ruby on Rails and Vue.js**  
• Increased video processing speeds by **10x** by architecting an asynchronous pipeline using **Bun workers**.  
• Won first place in an internal hackathon by developing an MCP server enabling agentic AI interactions with Vidyard products  
• Contributed to an AI microservice using **TypeScript and ElysiaJS**, serving as the backend for LLM operations

**Software Engineering / Machine Learning Intern** May 2023 — Aug 2024  
*Bell Canada | Python, VertexAI(GCP), LLM, Next.js, React, FastAPI, Big Query, PostgreSQL, Cloud Run* Toronto, ON  
• Led creation of a fullstack generative AI app, resulting in **65%** cost reduction by customer simulation, **winning Innovation Award**.  
• Collaborated with a team of **5** to scale the app for **5,000+** customer support agents, leveraging **Next.js, FastAPI, and PostgreSQL**.  
• Improved agent’s performance by **30%**, utilizing Gemini’s tool calling and dynamic rubrics to provide personalized feedback  
• Achieved **85%** code coverage for backend by creating a comprehensive testing suite using **Pytest**.

**Technical VP** Jul 2022 — Present  
*DeltaHacks | Next.js, TRPC, Prisma, Netlify, Tailwind, NextAuth.js, Typeform, PostgreSQL* Hamilton, ON  
• Managed **7** developers building a stack ranking based judging platform, streamlining **30+** judges’ evaluation of **100+** projects  
• Integrated **TRPC, Prisma, and Netlify functions** stack which **scaled** the backend to handle **10,000+** requests throughout the year  
• Developed a graph-based matchmaking tool that paired over **500** hackers into compatible teams based on interest and skillset

**Teaching Assistant** June 2022 — Dec 2024  
*McMaster University | Python, Bash, PostgreSQL, Discord API* Hamilton, ON  
• Optimized grading process for **1,000+** course materials (labs, assignments, exams) by developing **Python and Bash** scripts  
• Taught **Python, C, Bash, and Linux fundamentals** to **100+** students through tutorials and labs

PROJECTS

**GitFaster - Blazing fast GitHub client | Next.js Global Hackathon Speed Category Winner**  
*Next.js, TypeScript, React, PostgreSQL, Redis, Drizzle ORM, GitHub API*  
• Implemented **just-in-time prefetching** on link hover and intelligent caching strategies to achieve blazing fast page transitions  
• Optimized GitHub API integration with smart caching mechanisms to minimize redundant requests and improve response times

**McOutline - Find and share course outlines**  
*Next.js, React, TypeScript, Tailwind CSS, tRPC, GitHub*  
• Built a fullstack app for students to upload, and browse course outlines, solving the lack of a centralized archive.  
• Implemented local-first uploads with **OPFS** and GitHub object storage for zero-cost durability

**Grassy - Friendly bracket bot | Bracket Bot Hackathon Top 3 Winner**  
*Python, Rive, Next.js, OpenCV, websockets, MQTT*  
• Created a frontend interface to communicate over **MQTT** websockets and show robot emotions through **Rive** animations  
• Implemented a tracking algorithm using **OpenCV** to find people and prompt them to play rock paper scissors

SKILLS

Languages	Python, Web Development (JavaScript, Typescript, HTML, CSS), Java, C++, C, Rust, Bash, Haskell
Frameworks	React, Next.js, Tailwind, Django, FastAPI
Tools	Linux, Git, Cloud Services (Google Cloud Platform, AWS), Relational Databases (SQL, PostgreSQL)
Design	Prototype design with Figma, Photoshop