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WORK EXPERIENCE

Software Engineering / Machine Learning Intern

May 2023 — Aug 2024

Bell Canada | Python, VertexAI(GCP), LLM, React, FastAPI, Big Query, Cloud Run

Toronto, ON

- Created a **full stack generative AI** app based on **Google Gemini** that improved and lowered the cost of training agents by **65%**
- Collaborated with a team of **5** to scale the project across the organization and to be used by **5,000+** agents
- Improved the **LLM** model performance by **prompt tuning** and providing access to internal data through **RAG** techniques

Teaching Assistant

June 2022 — Current

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

EDUCATION

McMaster University

Sept 2021 — Apr 2026

Bachelor of Computer Science | GPA: 4.0

- Relevant courses on Data Structure and Algorithms, Software Development Principles, Formal logic and Discrete Math
- Provost Honour Roll and Dean's honour roll for achieving a GPA of 4.0

EXTRACURRICULAR EXPERIENCE

Technical VP / Technical Executive

May 2024 — Present / Jul 2022 — May 2024

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

Technical Manager

May 2022 — Present

McMaster Computer Science Society | React, Linux, Docker, DevOps

Hamilton, ON

- Streamlined **DevOps** infrastructures used by **200+** executive and general members
- Achieved **80%** more website traffic by implementing a minimal and intuitive design in **React**
- Saved **\$250/year** by implementing a **self-hosted** Bitwarden password management solution

PROJECTS

Arian.gg | Personal website

Next.js, React, Tailwind, Python, Google Gemini, LLM, Sanity.io

- Designed and developed a minimalistic and responsive personal website using **React** to showcase my projects and skills
- Created a blog using **Sanity.io** to share thoughts and technical deep dives
- Integrated a digital persona, leveraging **Google Gemini 1.5** to enable unique and innovative viewer interactions

Bluey | Waitlist queue management discord bot

Python, PostgreSQL, SQLAlchemy, Py-cord

- Developed a discord bot to track **5000+** users' activity to foster an active community and fair distribution of waitlist invites
- Employed a **PostgreSQL** database to store user data, queue status and to provide a realtime leaderboard for transparency

HACKATHONS

Scuba - Declutter your email with ai agents | HackMIT

Python, LlamaIndex, Langchain

- Developed **5** LLM agents to automate emails using **LlamaIndex** and the **ReAct** reasoning method
- Created a **RAG** model based on past emails to allow extensive personalization and accuracy

Dash - All in one dashboard for digital life | HacktheNorth

GCP, Next.js, React, Typescript, Tailwind, Prisma ORM, CockroachDB

- Integrated with Yahoo, GitHub and Google APIs such as **Gmail, Calendar** to provide realtime updates
- Implemented a custom grid component in React to allow maximum user customizability

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