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# Arian Ahmadinejad

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## 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 Engineering Intern

May 2024 — Present

*Vidyard* | TypeScript, ElysiaJS, Ruby, Vue 2

Remote

- Collaborated with a fulltime engineering team to maintain and enhance the core platform dashboard using **Ruby and Vue 2**
- Developed and maintained an AI microservice using **TypeScript and ElysiaJS**, serving as the backend for LLM-related 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 planning and implementation of a fullstack generative AI app, reducing training costs by **65%** through simulating a customer.
- Collaborated with a team of **5** to scale the app for **5,000+** 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
- Increased the realism of scenarios through prompt engineering and fine tuning the LLM's weights

### 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

### WebAssembly IDE | Browser-based WASM Development Environment

*WebAssembly, Monaco Editor, Shadcn, TypeScript, React*

- Built an online IDE for writing **WebAssembly** code with **Monaco Editor** providing syntax highlighting and code completion
- Implemented in-browser compilation and execution of WASM code with real-time console output

### When the Assignment | A Tool for Tracking Upcoming Deadlines

*Next.js, Tailwind, Shadcn, TypeScript, PostgreSQL, Prisma*

- Employed a session-based architecture to eliminate the need for authentication and user sign up
- Developed a deadline-priority task tracking system to ensure appropriate time management.

## HACKATHONS

### 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

### 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