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 / 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

Teaching Assistant   **June 2022 — Present**
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

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

PROJECTS

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.
- Implemented a platform-agnostic calendar syncing by hosting remote ICS files using **Next.js** middleware

Grassy | A friendly bracket robot that plays rock paper scissors
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

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