Website: arian.gg
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# Arian Ahmadinejad

Email: hey@arian.gg

## 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 |