Arian Ahmadinejad

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EDUCATION

McMaster University   Sept 2021 — Apr 2026
Bachelor of Computer Science | GPA: 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 cross-functionally to scale the app for **5,000+** customer support agents, using **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, Vercel, 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 Vercel functions** 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 top 3 winner out of 1500+ projects**
Next.js, TypeScript, React, PostgreSQL, Redis, Drizzle ORM, GitHub API

- Accelerated user interactions by **3x** by implementing just-in-time prefetching on link hover and intelligent caching strategies
- 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

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

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