ARIAN AHMADINEJAD

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EDUCATION

McMaster University   **Hamilton, ON**
Bachelor of Computer Science, **GPA: 4.0**   Sep 2021 – Apr 2026

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

EXPERIENCE

Greptile ↗   **Sep 2025 – Present**
Software Engineer   *Remote*
- Improving product performance across the stack through frontend optimization, caching strategies, and enhanced backend architecture

Vidyard ↗   **May 2025 – Aug 2025**
Software Engineering Intern | **Ruby on Rails, Vue.js, Bun, TypeScript, ElysiaJS**   *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

Bell Canada ↗   **May 2023 – Aug 2024**
Machine Learning Intern | **Next.js, FastAPI, PostgreSQL, Python**   *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**

DeltaHacks ↗   **Jul 2022 – Present**
Technical VP | **tRPC, Prisma, Vercel**   *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

McMaster University ↗   **Jun 2022 – Dec 2024**
Teaching Assistant | **Python, C, Bash, Linux**   *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 - Fast GitHub client | Next.js Global Hackathon winner ↗

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