ARIAN AHMADINEJAD

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Education

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

Skills

Languages: Python, JavaScript, TypeScript, HTML, CSS, Java, Bash
Frameworks: React, Next.js, Vue.js, Tailwind, Django, FastAPI
Tools: Linux, Git, Google Cloud Platform, AWS, PostgreSQL

Experience

Greptile ↗ — **Sep 2025 – Present**
Software Engineer | **Next.js, TypeScript, TRPC, Prisma, Bun** — *Remote*
- Reduced load times from **800ms to 200ms** by optimizing **Next.js** performance through server-side prefetching and caching
- Boosted feature adoption by **30%** through a new feature discovery system on GitHub comments
- Reduced engineering overhead by **5+ hours** per week by implementing Infisical for centralized secrets management

Vidyard ↗ — **May 2025 – Aug 2025**
Software Engineering Intern | **Ruby on Rails, Vue.js, Bun, TypeScript, ElysiaJS, AWS, Kubernetes** — *Remote*
- Expanded core dashboard with AI video creation for free tier using **Ruby on Rails and Vue.js**, attracting 3,000 new monthly users
- Architected an asynchronous pipeline using **Bun workers** to process videos **10x** faster
- Won first place in internal hackathon by developing an MCP server enabling agentic AI interactions with Vidyard products
- Worked on AI microservice using **TypeScript and ElysiaJS** powering 5,000+ daily LLM operations across the platform

Bell Canada ↗ — **May 2023 – Aug 2024**
Machine Learning Intern | **Next.js, FastAPI, Cloud Run, VertexAI(GCP), Big Query, Pytest** — *Toronto, ON*
- Led creation of a fullstack generative AI app, resulting in saving **$1.5 million** per year 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**
- Enhanced AI response realism by **50%** through fine-tuning Gemini models on historical customer support interaction logs
- Achieved **85%** code coverage for backend by creating a comprehensive testing suite using **Pytest**

DeltaHacks ↗ — **Jul 2022 – Jan 2026**
Technical VP | **Next.js, TRPC, Prisma, Tailwind, TypeScript** — *Hamilton, ON*
- Managed **7** developers building a stack ranking based judging platform, streamlining **30+** judges' evaluation of **100+** projects each year
- Integrated **TRPC, Prisma, and Vercel functions** which **scaled** the backend to handle **10,000+** requests throughout the year
- Developed a QR code event management infrastructure using **Apple Wallet** and a **PWA scanner** to handle traffic from **800+** attendees each year

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, GitHub API
- 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