Arian Ahmadinejad

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EDUCATION

McMaster University   **Sept 2021 — Apr 2025**
Bachelor of Computer Science | GPA: 4.0
- Relevant courses on Data Structure and Algorithms, Software Development Principles, Formal logic and Discrete Math
- Dean's Honour Roll for achieving a GPA of 4 in first year

SKILLS

Languages	Python, C++/C, Bash, Java, Haskell, Rust, JavaScript, HTML, CSS
Frameworks	React, Next.js, Tailwind, Django
Tools	Linux, Git, Cloud Services (GCloud, AWS), Relational Databases (SQL, PostgreSQL)
Design	Prototype design with Figma, Photoshop
Communication	English, Persian

EXPERIENCE

Teaching Assistant   **June 2022 — Present**
McMaster University | Python, Bash, PostgreSQL, Discord API   *Hamilton, ON*
- Optimized grading process for **1000+** course materials (labs, assignments, exams) by developing **Python and Bash** scripts
- Deployed a **PostgreSQL** database and **discord bot** to authenticate **100+** students
- Lead several C programming tutorial sessions for **50+** students

Technical Executive   **Jul 2022 — Present**
DeltaHacks | Next.js, TRPC, Prisma, Netlify, Tailwind, NextAuth.js, Typeform, PostgreSQL   *Hamilton, ON*
- Optimized registration portal used by **2500+** applicants each year by migrating from Vue.js to **Next.js**
- Integrated **TRPC, Prisma, and Netlify functions** stack which **scaled** the back end to handle **10k+** requests throughout the year
- Ensured privacy security of **thousands** of upcoming applicants by implementing Oauth using **NextAuth.js**

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
- Hosted a Hacktoberfest to aid **20+** club members learn about **open source** and **teamwork**

PROJECTS

TestFlight Tracker | Track beta iOS app invites
Python, BeautifulSoup, Gmail API, Telegram API, discord API, Simplepush API
- Scraped data from Apple's website using BeautifulSoup Library
- Leveraged several **APIs** to notify the user about available spots

Ryan-Jr | Student email address verification bot
Python, Gmail API, PostgreSQL, SQLalchemy, Discord API
- Implemented an authentication pipeline from scratch to authenticate 100+ students
- Designed a **PostreSQL** database to match discord bot requests to receive a Gmail API verification magic link

HACKATHONS

HackDex - An online hackathon mentorship platform
React, Firebase, GCloud, Express.js, Discord Auth
- Won **Audience Choice Award**, **Dream Big** and **Create More Awards**
- Developed a prototype using **React** and **Express.js** to integrate discord Oauth

Consensus - Alternative measure of product quality
Cohere AI, Python, Scikit learn library, Numpy, Scrapy
- Showcased at private meeting with the creators during and after the hackathon
- Achieved better product quality measure by scraping 20k+ amazon reviews and using **NLP** to generate 10 key points per product

Contact

ahmadinejadarian@gmail.com

www.linkedin.com/in/arian81
(LinkedIn)
arian.gg (Personal)

Top Skills

payloadcms

astro.js

TypeScript

Languages

English (Full Professional)

Persian (Native or Bilingual)

Certifications

Python 3 course

Cisco CPA : Programming
Essentials is C++

IoT Fundamentals: Connecting
Things

Honors-Awards

Ibn Sina National Neuroscience
Competition

Provost's Honour Roll

Deans' Honour List

Arian Ahmadinejad

Upcoming ML engineering intern at Bell | Aspiring Computer Science
student in McMaster University
Vaughan, Ontario, Canada

Summary

As a second year computer science student with a strong interest in
AI & ML, I am constantly seeking out opportunities to learn and grow.
I am passionate about using technology to solve problems and make
a positive impact, and believe that AI and ML hold great potential
for improving people's lives and addressing some of the world's
most pressing challenges. In my free time, I enjoy participating in
hackathons and technical clubs to stay up-to-date with the latest
technologies and trends in the industry. I am eager to collaborate
with others and contribute my skills to meaningful projects.

Experience

DeltaHacks
Technical Executive
July 2022 - Present (9 months)
Hamilton, Ontario, Canada

New landing page:
Alongside other team members we will be developing a new landing page in
preparation for DeltaHacks 9. We have decided to move away from Vue and
remake the website in React since more people are familiar with React and
community around it is more vibrant.

Improve backend:
Fixing the bugs from previous year and adding new features to make the
process of signing up, application check, judging, ... easier for attendees and
staff.

McMaster University
Teaching Assistant
June 2022 - Present (10 months)
Hamilton, Ontario, Canada

Course: COMPSCI 1XC3

Manage in person labs by guiding the students through activities designed to reinforce the content taught during lectures. Students would be able to ask questions they might have, and different methods have been considered to make the labs more engaging such as prizes for the most active group, etc. So far I have been working on
• Setting up the discord server where students can collaborate and communicated with each other and TA's for more comprehensive learning experience
• Checking the course slides and contents for typos and mistakes to be fixed by the time classes start
• Collaborated with other TA's to come up with plans to make labs more engaging
After classes I will be
• Hosting in person labs
• Help with marking assignments and exams
Course: MECHTRON 2MP3
A variant of 1XC3 for engineering students , where I was appointed as the marking TA dealing with marking Assignments, Midterms and the final using the auto grader. I was also in charge of responding to any grading concerns.
Course: COMPSCI 1MD3
Introductory python course where I held tutorial sessions weekly going over extra exercises to help solidify the concepts from lectures. I was also in charge creating an auto grader for the assignments creating test cases to mark students work. Marking paper based midterms and Finals was also part of my tasks.

McMaster Computer Science Society
Technical Manager
May 2022 - Present (11 months)
Hamilton, Ontario, Canada

Computer Science Society is the main community for Computer Science students in McMaster University. Computer Science Council is the board managing the society and as the Technical Manager I'm in charge of everything technology related. So far I have
• Updated and maintained the Society website adding CI for easier development, created development branches and in the works of adding more sections to facilitate more features
• Set up and maintain a self hosted password management solution to ensure a Privacy focused, access to all features and cost effective solution is available for team members

Lead a team of 9 to design and implement a new version of the society's website with a full fledged Payload CMS backend for news and events. The website is created using Astro.js which gives the flexibility of allowing anyone with any web dev background to contribute. That's because Astro.js is framework agnostic and you can mix code written for React.js with Vue.js or even vanilla javascript and html.

Education

McMaster University
Bachelor of Applied Science - BASc, Computer Science · (September 2021 - April 2025)

Earl Haig Secondary School
Computer Science · (2019 - 2021)

National Organization for Development of Exceptional Talents (Sampad)
 · (2014 - 2019)