

Aditya Rao

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🌐 <https://github.com/adityarao2005> | 🌐 <https://adityarao-portfolio.vercel.app>

Education

McMaster University, Hamilton, Canada
Bachelor of Engineering CO-OP, GPA: **4.0 first year**
Majoring in **Software Engineering**

Sept 2023 – April 2028

Experience

Medium AI
Full-stack Developer Intern

May 2024 – Aug 2024

- Contributed to Medium AI's first-place win in the McMaster Forge Startup Survivor program by developing user interfaces with React.js and writing code in Python and TypeScript.
- Implemented web APIs and integrated speech recognition technologies using OpenAI, AssemblyAI, and Whisper models.
- Utilized Socket.IO and gRPC for real-time communication and processed live audio streams with FFmpeg.
- Managed Linux development environments and employed Git for version control and collaboration.

Projects

Resume Builder

Aug 2024 – Present

- Developing a real-time resume builder and critiquer leveraging AI to automate creation, editing, and scoring
- Secured frontend and backend with Firebase Auth and Spring Boot OAuth2 resource server
- Managed resume storage with MongoDB for resume and profile objects and AWS S3 for PDF objects
- Planning on creating and deploying ML services with Docker and Kubernetes as AWS Lambda services

FashioNova

Oct 2024 - Oct 2024

- Developed a virtual wardrobe and AI fashion advisor in 36 hours at Hack the Valley 9 at UofT Scarborough
- Created an OpenCV pipeline using Flask and Socket.io to fit virtual clothes onto users via live video feed
- Leveraged Cloudflare AI to suggest outfits based on the occasion, promoting sustainable fashion consumption.

Smart Study Buddy

Aug 2024 – Aug 2024

- Developed an intelligent chatbot capable of summarizing course materials and answering user queries on various topics.
- Integrated OpenAI API for natural language processing to provide general question-answering capabilities.
- Utilized Wolfram Alpha API to handle scientific and computational queries, offering accurate and in-depth responses.
- Built a feature to generate practice problems based on course material, enhancing the learning process.
- Designed with a responsive front-end using Next.js and TypeScript, paired with Python Flask for efficient backend processing.

Portfolio & Dashboard Management

Dec 2023 – Mar 2024

- Developed a personal portfolio which hosts both my projects, sketches, and oil paintings done by me
- Developed a dashboard to manage the projects, sketches, oil paintings, and messages sent to me
- Automated the creation of projects and artworks and developed a messaging system which saved around 50% of development time.
- Used Next.js and TailwindCSS for frontend and Express, MongoDB, Node.js, and Vercel Cloud for Backend

Skills

Programming Languages: Java, Python, SQL, .NET Framework, C/C++, JavaScript/TypeScript

Frameworks: Spring Boot, Hibernate, Express, Next.js, Flask, UWP, Django, ASP.NET Core

Developer Tools: VS Code, Eclipse, AWS, GCP, Git, Github, Docker, Vercel, MongoDB, MySQL, Unity

Libraries: Pandas, TensorFlow, OpenCV, SciKit Learn, JavaFX, Redux, JQuery, React, Mongoose

Hobbies: Sketching, Painting, Violin (Western and Carnatic), Badminton, Swimming, Chess

Udemy Certifications (In-progress): AWS Cloud Practitioner, Docker & Kubernetes