Adarsh Patel

Toronto, Ontario

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Technical Skills

Programming Languages: Java, Python, C/C++, HTML/CSS, JavaScript, MATLAB, Bash, SQL
Technologies/Tools: Linux, GitHub, AWS, React, React Native, MongoDB, Docker, Node, Express, Nginx, Flask, Heroku

Education

McMaster University   **Sept. 2019 – April 2024**
Bachelor of Engineering - Computer Engineering and Management   *Hamilton, Ontario*
Cumulative GPA: 3.9

Work Experience

IBM   **May 2022 – Sept. 2022**
Back End Developer Intern   *Toronto, Ontario*
- Improved security scan efficiency by 80% by only parsing essential JSON data into CSV files for developers to assess
- Implemented a C UDF that integrates a C++ library which supports data masking for Data Virtualization platform
- Automated metadata propagation across virtualized assets on IBM CP4D which reduced workload for clients by 100%
- Updated SQL queries and configured access levels for various roles to ensure minimum access policy across the platform

MLH Fellowship powered by Meta   **June 2021 – Sept. 2021**
Production Engineering Fellow   *Remote*
- Explored Meta's Production Engineering/DevOps role through guided training for Linux, CI/CD, and AWS
- Implemented cAdvisor to monitor and observe performance characteristics of running Docker containers in a web app
- Developed automated scripts with Bash to test endpoints and send notifications/deployment status via Discord

Sepeor Inc.   **June 2021 – Dec. 2021**
Freelance Full-Stack Developer   *Remote*
- Created a mobile app with React Native for young professionals to connect with peers and explore job opportunities
- Optimized UI/UX using React Native Accessibility API to accommodate users with dyslexia and partial blindness
- Developed a REST API with express.js for backend MongoDB communication, ensuring efficient data communication

Projects

HoopChat | *Express.js, JavaScript, HTML/CSS, React, MongoDB, Heroku*   **_Project Link_**
- Built a React web app to allow people to organize, plan, and post basketball drop-ins in their communities
- Created a REST API using express.js which used MongoDB for the database in the backend
- Implemented user auth with JWT, designed a UI, and created map view containing all events with mapbox API

Social Media Meta Generator | *OpenAI, JavaScript, HTML/CSS, particle.js, Express.js, Heroku*   **_Project Link_**
- Developed a web app that allows users to generate metadata for their YouTube, Instagram, and TikTok posts using AI
- Integrated OpenAI's Dall-e API for thumbnail generation and chatGPT API to create video title, description, and tags
- Hosted the app using Heroku and designed the front-end using HTML/CSS/JS and used the particle.js library

ruNFT | *flutter, dart, solidity, MongoDB, Web3.js, Node.js, Express.js*   **_Project Link_**
- Developed a mobile app with flutter that generates NFTs of users' Strava running maps and publishes them to OpenSea
- Built an API using express.js and web3.js for minting tokens and communicating with the MongoDB database
- Won 'Best Use of StravaAPI' at McMaster's DeltaHacks for promoting a healthy lifestyle by incentivizing exercise

Leadership / Extracurricular

Google Developer Student Clubs - Web Developer Co-Lead   **Sept. 2020 – April 2023**
Open-Source and Web Developers Team   *McMaster University*
- Optimized club website with React to make upcoming events more visible to over 200 members by improving UI
- Designed a React Native app that organizes tasks for student homes and improves group communication
- Lead a team of 8 student developers in building and maintaining club website in an agile scrum environment

Relevant Courses

Data Structures, Algorithms & Discrete Mathematics - McMaster University
- Applied discrete mathematics and algorithmic analysis to optimize code with respect to time and space complexity

Operating Systems - McMaster University
- Explored the underlying principles of modern operating systems by programming and testing OS features