Vivek Aruja

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EDUCATION

Western University — London, Ontario
Bachelor of Engineering Science in Electrical Engineering and AI Systems Engineering — *Sept. 2023 – Current*

Iona Catholic Secondary School — Mississauga, Ontario
High School Diploma, Honours — *Sept. 2019 – June 2023*

EXPERIENCE

Software Engineering Fellowship — July 2024 – Sept 2024
Headstarter AI — *Remote*
- Built 5+ AI apps and APIs using Next.Js, OpenAI, Pinecone, StripeAPI with 98 % accuracy as seen by 1000 users
- Developed projects from design to deployment leading 4+ engineering fellows using MVC design patterns
- Coached by Amazon, Bloomberg and Capital One engineers on Agile, CI/CD, Git and microservice patterns

Undergraduate Research Assistant — June 2024 – Sept 2024
Western University — *London, Ontario*
- Developed a controller-based system using ROS to maneuver the Husky UGV, enabling precise control and navigation
- Created an Arduino-based door detection system with ultrasonic sensors and Arducam, enhancing environmental interaction capabilities
- Combined data from various sensors to improve the robot's situational awareness and decision-making processes

AV Systems Integration Intern — July 2023 – August 2023
Sound Dymax Inc. — *Mississauga, Ontario*
- Managed incoming shipments of goods; ensured products were received, inspected, and recorded accurately and in a timely manner.
- Collaborated closely with logistic partners to develop audio equipment.
- Enforced safety and cleanliness standards, maintaining a clean warehouse environment.
- Shadowing systems designer and owner through daily operations.
- Training in audio visual systems.

PROJECTS

Weather App | *React.js, JavaScript, Tailwind CSS* — August 2024 – Sept 2024
- Developed a responsive weather application using React.js, integrating with the OpenWeatherMap API to deliver real-time weather data for cities worldwide
- Utilized asynchronous API calls to fetch and display current weather, 3-hour, and daily forecasts
- Implemented a search functionality with options for users to search by city name or geolocation, and toggle between Celsius and Fahrenheit units

AI Flashcards | *Next.js, OpenAi, Stripe* — August 2024 – August 2024
- Created a system for users to generate and organize flashcards for studying
- Implemented authentication and user management to ensure secure access
- Integrated a payment gateway to allow users to purchase premium flashcard sets or subscription plans

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, MATLAB
Frameworks: Arduino, Robot Operating System (ROS), React, Node.js, Tailwind CSS
Developer Tools: SOLIDWORKS, SketchUp, Onshape, IntelliJ, Visual Studio Code, Git
Operating Systems: Windows 10, Ubuntu, Linux
Skills: PCB Design, MS Office, Video Editing (Adobe Premiere Pro), Music Production (FL Studio), SwedaMart, Warehouse Management