

Vinamr Arya

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EDUCATION

University of Michigan, Ann Arbor

Graduated: July 2023

Double Major: B.S.E Computer Science, B.S.E Aerospace

Coursework: Data Structures and Algorithms | Computer Organization | Foundations of Computer Science | User Interface Development | Control of Aerospace Vehicles | Probability and Statistics | Discrete Math | Computer Security

WORK EXPERIENCE

Medical Drone UAV

University of Michigan, Ann Arbor

Lead Engineer

June 2021 - Present

- Led a team of four students and collaborated directly with executives from BlueFlite, team from KNUST (Ghana) and Professors from the University of Michigan to design, prototype and test a hybrid-electric heavy lift tilt-rotor quad plane for rapid deployment of medical supplies in remote regions of Ghana.
- Performed rigorous testing to validate major components of the aircraft, including static and dynamic thrust tests to estimate flight performance and tethered flight tests to tune the PID controller for various flight modes.
- Used Flight Stream and OpenVsp to tune the aerodynamics of the aircraft which resulted in a 5lbs reduction in weight and a 3 feet reduction in wingspan.

Audion Technologies

Remote, Ann Arbor

Full Stack Developer | Co-founder

August 2022 - Present

- Co-founded Audion Tech, leading the development and design of the platform's frontend and backend.
- Spearheaded the frontend development using TypeScript and ReactJS, ensuring a responsive and user-friendly interface.
- Integrated AWS analytics to meticulously track user actions, providing valuable insights for platform optimization.
- Collaborated on the backend, leveraging technologies such as GraphQL and AWS S3 to ensure robust data handling and storage.

PROJECT EXPERIENCE

(H)ear (Translation app for the people with Hearing Disabilities)

- Brainstormed and implemented a translation app that converts speech to text and morse code using Swift 5.0.
- Used Apple's speech recognition and watchKit to provide haptic feedback in morse code on the Apple Watch.

Bluetooth based Emergency alert app (Python, Swift, Django, PostgreSQL)

- Working with a team of six students to create an emergency alert app that alerts the first responders.
- Using preplaced Bluetooth beacons, we triangulate the location of the client in the building providing real time location of people requiring aid to first responders.
- Created frontend and backend to allow communication between client and first responder.

Instagram Clone (Python, JavaScript, HTML, CSS)

- Designed server and client-side dynamic web pages to replicate Instagram using reactJS, Rest APIs and SQL.
- Created static site generator using Jinja and Flask libraries.
- Deployed the project on AWS EC2 instance.

SKILLS

Proficient: MATLAB, Python, C/C++, TypeScript, HTML, CSS, SQL, GIT, Raspberry PI, Arduino, Pixhawk

Comfortable: JavaScript, Autopsy, reactJS, Flask, AWS, Docker

Past Experience: Tensor Flow, GoLang, Three.js, Ghidra

CERTIFICATIONS

Comptia

August 2022

Network+, Security+

FAA

December 2018

Private Pilot Certificate (Single Engine Land)