Shubh Vashisht

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Education

- **University of Massachusetts, Amherst** — Amherst, MA
- Bachelor of Science, Computer Science (GPA: 3.703/4.000) (Dean's List) — Expected Graduation: December 2022

Technical Skills

Languages: Python, Java, HTML/CSS, C++, C, JavaScript
Libraries: React, Redux, Nodejs, Express, GraphQL, THREE.js
Tools: Git, AWS, Linux, Docker, Heroku, Firebase
DBMS: MongoDB, SQL, PostgreSQL

Relevant Coursework

Software Engineering
Machine Learning
Artificial Intelligence
Full Stack Web Development
Neural Networks
Natural Language Processing
Algorithms and Data Structures
Algorithm Design and Discrete Math
Principles of Data Science
Programming in Java
Backend Infrastructure
Object Oriented Programming

Experience

Outrider AI — **Golden, CO**
Associate Software Engineer — **12/2022-Ongoing**

- Built a system using ROS to track truck metrics to optimize software testing and deployment.
- System built improved testing operations speed by 60% since it allowed more accurate representation of resource availability.
- Built a web-based dashboard for reprogramming the truck in real time, improving reprogramming efficiency by 200%.
- Built custom gitlab pipelines for enforcing industry standard practices such as pre-commit, release it and conventional commits.
- Developed a 3D web application using React and THREE.js that provided real-time rendering of a truck's 3D model within a yard, while simultaneously rendering the surrounding environment using costmap data.

Outrider AI — **Golden, CO**
Software Engineering Intern — **06/2022 – 12/2022**

- Assisted in building out features for software tools that interface with autonomous trucks.
- Built a web based 3d dashboard that rendered a robotic arm captured its movement in real time.
- Used object-oriented practices such as abstraction, inheritance and polymorphism to make code reusable and organized.
- The web app created was 85% faster than legacy software used for visualizing robotic arm.

Build UMass — **Amherst, MA (Remote)**
Software Engineer — **02/2022 – 12/2022**

- Created front-end module dashboard for accepting data sources, performing crawling, and analyzing and visualizing results.
- Used D3.js and MapBox API to visualize region specific data.

Hofars — **Amherst, MA (Remote)**
SWE Intern — **06/2021-8/2021**

- Leader of RMS Module Project for Human Resource Management Software. (React and Nodejs)
- Coded 15 reusable components using React.
- Worked in agile scrum setting in team of 8 members.

Personal Projects

- **KNN Classifier for Flower Species Recognition (Python, Numpy)** — **02/2022**
  - Wrote a Machine Learning KNN algorithm for classification of flower species for 50 different K values.
  - Achieved 97% accuracy with a standard deviation of 3.2% on a dataset of 150 inputs.

- **Full Stack Tourism Website (React, Node.js, MongoDB)** — **06/2021**
  - Designed both frontend and backend of a tourism website that promotes business for a fictional beach.
  - Utilized React, CSS and HTML for front-end and Node, Express and Mongo DB for the backend.
  - Implemented REST APIs using Express and Mongoose.
  - Coded a fully functional website in 40 hours, in a team of 2, while learning the essentials of full stack web development.

- **JavaScript Library "MoralFibre" (JavaScript)** — **04/2021 – 05/2021**
  - Launched a JavaScript Library on NPM that provides over 27 functions that supports favorite workaday functional helpers: map, filter, invoke and also incorporates 15 more specialized methods such as function binding and JavaScript templating.
  - These functions help in reducing coding time and also in writing cleaner code.