Akshay Shivkumar

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Education

University of Maryland *May 2023*
Major: Computer Science - Machine Learning Track *GPA: 3.66/4.00*
Minor: Mathematics
Relevant Coursework: Data Science, Introduction to Artificial Intelligence, Applied Probability and Statistics, Linear Algebra, Computer Network Security, Introduction to Machine Learning, Algorithms

Technologies

- Java, Python, JavaScript, C, Ruby, Selenium, HTML, CSS, React.js, AWS, Docker, Git, Node.js, SQL, Keras

Work Experience

Raytheon Technologies and Space *Riverdale, Maryland*
Software Engineer Intern *06/2021 – 08/2021*

- Worked on the NASA Cumulus project, a tool used to render and hash satellite data received from a PO.DAAC satellite.
- Added functionality to maintain a data table's sort state through page changes and refreshes.
- Developed reusable React Redux components to receive API calls and ensured front end continuity of service.
- Created and maintained unit and integration tests using the CI/CD practices.
- Employed use of Agile development practices to tackle 3 dashboard tickets, averaging 5 story points a week, improving dashboard functionality.

Live and Learn Bethesda *Bethesda, Maryland*
Director of Zoom IT *09/2020 – 05/2021*

- Pioneered 10 Zoom meetings a week making sure that meetings went according to plan.
- Governed day to day operations of running classes and ensuring customer satisfaction.
- Fielded any technical questions and streamlined communication between the teachers and the students.

Projects

UMD Course Registration Bot

- Developed a Bot in Python using Selenium to automate users registering for courses.
- Capability to Holdfile/Waitlist for classes if the class section is not open. Returns a list of successful Adds, Waitlists, and Holdfiles to the user's schedule.
- Developing functionality to get the bot hosted on a server so classes can be signed up for the moment they become available.

Personal Website

- Built a personal website using HTML, JavaScript, CSS to highlight skills in full stack development.
- Currently working on implementing React.js elements and getting it hosted on an EC2 instance on AWS.

Stroke Prediction Neural Network

- Group project with group members as a final year project for a data science class.
- Employed use of tensorflow in building and maintaining models.
- Used a Multi-Layered Perceptron Neural Network in stroke prediction, yielding an 85% accuracy in stroke prediction.

Awards/Recognition

- Presidents' Scholarship (University of Maryland) – 4 year scholarship: **(Awarded Fall 2019)**
- Dean's List **(Fall 2020, Spring 2021, Fall 2021)**
- College Park Scholars (Science, Technology, and Society) **(Citation Awarded Spring 2021)**
- University of Maryland Department of Computer Science Departmental Honors **(Awarded Summer 2021)**

Extracurricular

- Intramural Basketball and Soccer.
- University of Maryland CS Club