

SAI KUMAR VADDEPALLY

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Education

University of Maryland Baltimore County

Master's in Computer Science — Cumulative GPA: 3.3/4.0

Aug 2022 – May 2024

Baltimore, Maryland

B V Raju Institute Of Technology

Bachelor's of Technology in Information Technology — Cumulative GPA: 3.8/4.0

Aug 2016 – Aug 2020

Narsapur, India

Work Experience

Graduate Teaching Assistant | University of Maryland Baltimore County

Aug 2022 – Current

- As a teaching assistant, assisted 40+ students by answering their questions, providing one-on-one or group tutoring, graded assignments, quizzes, and exams, and facilitated lab sessions, workshops, and discussion groups on the subject Programming Languages.

Software Development Engineer, Test | Pramati Software Private Limited (Wavemaker)

Jun 2021 – Aug 2022

- Devised diverse test scenarios, formulated both web and mobile applications, and executed UI automation utilizing the Selenium WebDriver.
- Implemented and executed over 400 automation test cases utilizing Selenium and Jenkins; ensured product stability and reduced software release time by 50%.
- Prepared more than 50+ use cases and created a variety of applications using React components.
- Updated the existing testing framework such that the framework runs on different versions of the application built on the product which enhanced the efficiency of the product by 45% .
- Added 200+ Regression testcases and 100+ API test cases which raised the product stability by 18%
- Integrated jenkins with Kubernetes to use kubectl as jenkins pipeline for running around 10+ test suites.
- Trained two juniors and handled the enterprise edition of the product.

Associate Software Engineer | Pramati Software Private Limited (Wavemaker)

June 2020 – May 2021

- Played a key role in developing and implementing critical security features, including XSS prevention, CORS configuration, and allowed Hosts settings, resulting in a significant 15% enhancement in the product's security measures
- Contributed to the development and implementation of server-side pagination, optimizing data retrieval and enhancing user experience by efficiently fetching and displaying paginated content on the front-end, resulting in reduced page loading times by mere milliseconds.

Engineering Intern | Pramati Software Private Limited (Wavemaker)

Dec 2019 – May 2020

- Designed and developed a comprehensive automation dashboard report tool utilizing JavaScript, Node.js, and MySQL. The tool generated detailed reports on product stability, providing valuable statistics for each feature based on diverse test cases, enabling data-driven analysis and enhancing product stability assessment and reduced the time and effort by 50%

Projects

Breast Cancer Detection | Python, Machine Learning, Google Colab

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- Utilized the CNN pre-trained model ResNet 50 for classifying tumors in the scanned medical image to identify breast cancer.
- To handle the imbalanced dataset, implemented the Leave-One-Out cross-validation technique which increased accuracy by 60%.

Distributed File Sharing System: | Python, Sockets, Fernet, AES

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- Created distributed file system project employing peer-to-peer communication on a centralized directory architecture, utilizing AES encryption for added security.
- Orchestrated the connection between peers and the Centralized Server, ensuring efficient communication and authentication to perform 4 different CRUD operations on file .

GPS Based Attendance System: | Java, Spring, MySql, mvn

- Based on valid GPS coordinates from the user, stored in the database. Generates tailed report based on the role which reduces the manual effort by 70%.

Skills

Languages: Java, Python, C++, JavaScript, SQL, R, Algorithms and Data Structures

Databases: MongoDB, MySQL,

Web: HTML, CSS, React , Node Js , Spring , Selenium Webdriver, TestNG, Maven

Cloud: AWS

Tools: Git/GitHub, Docker, Jenkins, Grafana, IntelliJ, Linux, Kubernetes, Postman, JIRA

Achievements & Honours

- Young Achiever Employee Award:** Received a Young Achiever Employee Award for outstanding contributions made in the team in the year 2022.
- Best Student:** Achieved the honor of being recognized as the Best Student for my outstanding leadership as President of the college department club, and proudly represented the department in various events.

Certifications

- Python Development Certification from Coursera
- Microsoft Certified under AI
- IBM certification on BigData using R