Anirudh Ramchandran

anirudh.suresh.ramchandran@gmail.com • 530-760-8163 • www.linkedin.com/in/anirudh-ramchandran/ • anirudhsuresh.github.io

Experienced software engineer with a proven track record in developing web applications and leading cross-functional projects. Demonstrated expertise in web development, CI/CD, and data-driven solutions, coupled with strong academic and industry recognitions

EDUCATION

Master of Science in Electrical and Computer Engineering | *University of California* | Davis, CA **Jan 2021**
- Graduated with honors and a research assistantship scholarship

Bachelor of Engineering in Electrical and Electronics | *Dayananda Sagar College of Engineering* | Bangalore, India **May 2019**
- Ranked in the top 10% of the undergraduate class.

SKILLS

Technical Skills: Python, Javascript (React.js, Node.js, Express.js) , HTML, CSS, Java, SQL, MongoDB, Bash and Powershell scripting
CI/CD: Jenkins, Git, RobotFramework
OS: Linux, MacOS, Windows, Unix

EXPERIENCE

SiFive **March 2022 - Present**
Software Engineer **|** *Remote*
- Helped engineers identify performance bottlenecks during debugging by building javascript based performance tools
- Drove the innovation and implementation of web apps tools, driving a 25% surge enhancement in cross-functional product utilization.
- Served as the team's developer for front-end ReactJS UI components and web based data visualization tools.
- Collaborated with cross-functional teams, ensuring web app tools met 100% of their business objectives and user requirements.
- Developed backend Java components and implemented web sockets, driving a 50% reduction in desktop app-to-web-app communication latency.
- Contributed to a continuous integration testing framework using Python, Java, Robot Framework, AWS, and Jenkins, slashing local testing times by 50%.
- Created and maintained over 100 different tests, resulting in an 80% efficiency gain in testing processes during release periods.
- Integrated AWS S3 buckets, allowing for the seamless addition of new data sources, contributing to continuous integration capabilities.
- Implemented an automation process where Slack messages triggered test file creation, decreasing manual entry requirements by 90%.
- Worked with senior engineers to enhance team efficiency through proactive JIRA ticket management and strategic sprint planning.
- Authored comprehensive README documentation for streamlined onboarding processes, internal team and project workflows.
- Established and maintained best practices for GitHub commands and product workflow, promoting consistent team workflow management.

Decal Lab UC DAVIS **January 2021 - March 2022**
Graduate Student Researcher **|** *UC Davis* **|** *Davis, CA*
- Architected a full-stack web tool using D3.js that allows stakeholders to monitor and explore open-source project sustainability trajectories, including social and technical networks.
- Programmed interactive D3.js graphical user interface to visualize email patterns and historical code commits to help in the study of project sustainability.
- Minified all existing CSS files and re-designed front-end architecture by utilizing Flexboxes to enhance user experience and response time.
- Refactored 70% of the codebase to ensure future extensibility, maintainability and full responsiveness to different resolutions.
- Created portable parallel running data pipelines using Python to reduce the time data insertion from 72 hours to 24 hours.
- Presented this project at Apache Con 2021 as a keynote speaker.
- Live Demo: https://github.com/anirudhsuresh/APEX

TÜV SÜD Global Risk Consultants **June - September 2021**
Software Engineering Summer Intern **|** *Remote* **|** *Davis, CA*
- Analyzed data using Python and Power BI, delivering visual insights that assisted loss prevention managers in decreasing fire risk by 2%.
- Collaborated with the senior team lead to develop data-pipeline scripts in SQL, enabling automated data transfer from the data lake to the data warehouse.
- Designed an SQL database schema to accommodate and structure new data.
- Developed PowerShell scripts to automate test execution and send email notifications when discrepancies were detected in the data warehouse.

Research Publications

Exploring Apache Incubator Project Trajectories with APEX **March 2022**
URL: 10.48550/arXiv.2205.10992