

Rakesh Ravula

Software Engineer

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WORK EXPERIENCE

Student Software Engineer May 2022 – April 2023 **UAB SHP, Birmingham, AL**

- Developed a custom CMS for a health and nutrition project using PHP Laravel, Ajax, jQuery, GraphQL; increased content publishing speed by 50% and reduced errors by 25%.
- Introduced a VUI node application with Alexa Skills Kit to assist Diabetes patients in tracking and logging food intake; improved patient satisfaction by 50%.
- Conducted hands-on tests of new technologies and tools and identified gaps in internal processes; recommended and administered process changes that boosted team productivity by 30%.
- Identified and resolved operational issues for 8+ applications by conducting root cause analysis, executing solutions and driving down incident resolution time by 40%.

Software Engineer May 2019 – December 2021 **ValueLabs, Hyderabad, India**

- Designed and implemented a NodeJS module that served as an AWS Lambda function for digital publication and raised publishing turnaround time by 50%.
- Guided and performed a solution for provisioning Reference links lessen the effort for creating the final title by 35% and having a faster go-live date for course titles.
- Applied Graph Traversal Algorithms and Design Patterns for processing nested XHTML content in EPUB files, resulting in a 30% improvement in processing efficiency.
- Strengthened project deployment and management by utilizing Containers and CI/CD pipeline and Flow Control, reducing deployment time by 40%.
- Produced responsive functional user interfaces using Bootstrap, JavaScript, and React hooks, leading to a 25% increase in user engagement and satisfaction.
- Addressed complex issues with real-time lead prioritization using WebSocket connectivity, resulting in a 50% reduction in response time for lead management.

Intern Software Engineer May 2018 - June 2018 **CSASoft Pvt Ltd, India**

- Played a key role in the development of a web application for a client to handle stock management, utilizing HTML, CSS, JavaScript, and PHP, contributing to a 75% improvement in stock management efficiency.
- Accomplished a feature to display network speed and enable file downloads from the server using AWS S3, resulting in a 50% reduction in download time and improved user experience.
- Revamped deployment process, utilizing Docker and AWS technologies, to increase application performance by 35% and reduce server costs by 20%.
- Configured auto-scaling for EC2 instances using CloudWatch metrics and alarms; lowered server costs by 50% and enhanced application performance by 25%.

SKILLS & OTHER

- **Programming languages:** TypeScript, Python, JavaScript, JAVA, Solidity, C, HTML, CSS, R, Kotlin, PHP, Embedded C.
- **Frameworks & libraries:** React, Node.js, Express.js, Redux, Webpack, Flask, jQuery, Vue.js, Twilio, Bootstrap, AlexaSkillsKit.
- **Databases:** MySQL, PostgreSQL, MongoDB, NoSQL, Microsoft Access.
- **Development tools:** Eclipse, IntelliJ, Visual Studio, Jupyter Notebook, Maven.
- **Testing frameworks:** Jest, Mocha, Cypress.
- **DevOps tools:** Slack, Tomcat, AWS, GitHub, GitLab, Bitbucket, Docker, Jira.
- **Others:** IOT, ArduinoUNO, MetaMask, Ethereum.

EDUCATION

- MS in Computer Science, University of Alabama at Birmingham.
- BTech in Computer Science, LBRCE.

Projects:

- **NFT Smart Contract:** Led a team of 3 developers to design and implement a smart contract-based car selling platform; integrated OpenSea NFT marketplace to enable fractional ownership and increased customer base by 20%.
- **Smart Agriculture Using IOT:** Created a digital monitoring platform for soil health that integrated with existing irrigation systems; reduced water usage by 25% and progressed crop quality by 20%.
- **Portfolio:** Designed and developed a personal portfolio website using React.js, Next.js, and Sanity.io; enhanced user experience, leading to a 30% increase in email inquiries and 20% increase in freelance projects.
- **Interview Scheduler:** Built a user-friendly web application, Interview Scheduler, that allowed hiring managers to schedule interviews with candidates and receive automatic email reminders; increased interview attendance by 50%.