SINDHU KROVVIDI

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EDUCATION

NORTHEASTERN UNIVERSITY   Boston, MA
Master of Science in Computer Science, CGPA: 3.9/4.0   Aug 2024

SKILLS & CERTIFICATIONS

Programming Languages: Java, C#, JavaScript (including ES6+), TypeScript, Python, SQL
Frontend: React.js, Redux, Next.js, Vue.js, Bootstrap, Tailwind CSS, Angular, HTML, CSS, Webpack, Babel, Storybook, Sass, Figma
Backend: Node.js, Express, Go, Spring Boot, MVC Architecture, .NET Core, RESTful API, GraphQL, MongoDB, MySQL, PostgreSQL
Tools & Others: AWS, Docker, CI/CD, JUnit, Jest, Enzyme, React testing library, Cypress, Mockito, NPM, Yarn, ESLint, Maven, Jira

WORK EXPERIENCE

Trimble Inc, Princeton, New Jersey   May 2023 – Dec 2023
Software Development Engineer Intern
- Developed an end-to-end web application named "Hydra", empowering users to access and modify data in the database from the UI using React, Express and Node, JavaScript along with cloud authentication and authorization through OAuth and RBAC.
- Optimized data fetching processes, increasing throughput by **20%** and reducing page load times by **15%**.
- Integrated the NgRx state management library in "Truck Profile", an Angular fleet management application, managing complex data flows, state changes, subscribing to http calls, leading to a **30% increase in web performance**.
- Designed and tested scalable RESTful APIs using C# and .NET (Entity Framework) adhering to best REST API design practices and automated testing procedures, leading to a **40%** decrease in post-deployment defects.
- Significantly improved product quality and reduced turnover time by effectively troubleshooting and resolving critical UI and backend issues within an agile framework.

Northeastern University, Boston, Massachusetts   Sep 2022 – Apr 2023
Frontend Developer
- Led the frontend development of "Husksheets" and "Covey.Town", collaborative applications using React and TypeScript**.**
- Enabled real-time chat through WebSockets, automated integration testing and unit testing with Jest and React Testing Library.
- Created a user interface with responsive design in Figma, with web design principles improving user satisfaction score by 20%.
- Collaborated on backend API development using Spring Boot, JPA, Hibernate, Spring Security and utilized Git version control.
- Upgraded Internal tools with ReactJS, adding email scheduling and A/B testing, and implemented Test Driven Development (TDD) and GitHub Actions for continuous integration with **80%** code coverage.

Goodera, Bengaluru, India   Jan 2019 – Jul 2022
Software Development Engineer - Senior SDE (Full Stack)
- Created "goodera-widgets", a responsive, reusable component library having 30+ widgets using React.js, TypeScript, and Tailwind CSS, utilizing Storybook for documentation and unit tests, **bringing down the development time by 10 days**.
- Spearheaded and deployed "Canvas", a high-performance, cross-browser compatible web application for custom dashboards through drag and drop using MERN stack and Redux, maintaining 80% test coverage through Jest and Enzyme.
- Substantially improved website performance through optimized browser caching and Webpack configuration, reducing Largest Contentful Paint (LCP) by **70%** and reducing latency by **40%**. Played a pivotal role in **renewing 5 client contracts**.
- Owned and operated robust back-end services in Node.js and Express.js, RESTful APIs producing and consuming data in JSON.
- Developed CI/CD pipelines using Jenkins and deployed into different environments in the cloud by creating docker images.
- Awarded with "**Quality Award**" and **Promoted to Senior SDE** for consistently demonstrating strong problem-solving skills, reliable application development, driving business results and exceeding expectations in all core competencies.
- Mentored **5** junior team members, fostered effective communication skills by collaborating with cross-functional teams on UI/UX, technical grooming, code review, providing feedback to improve code quality and organized scrums utilizing Jira.
- Engineered a NoSQL Mongo "Query Builder Module" in NodeJs with Redis caching, improving system response times by **60%.**
- Worked with the DevOps team for containerization using Amazon ECS and AWS Kubernetes Service(EKS) for container orchestration and deploying robust microservices on AWS using Docker.
- Leveraged Amazon CloudWatch for service and application monitoring, utilized S3 for images and hosting static websites.
- Built **5** interactive websites using HTML, CSS, Bootstrap, JavaScript, and jQuery, improving KPI presentation for CSR initiatives.

PROJECTS

Stack Overflow, Link   Apr 2023
- Devised a Q&A platform similar to Stack Overflow utilizing React and Next.js, integrating MongoDB.
- Utilized Cypress for end-to-end testing and deployed via Docker on AWS EC2 using Gitlab CI/CD pipelines.

Stocks Investopedia, Link   Dec 2022
- Pioneered a Java application with MVC architecture enabling stock investment, dollar-cost averaging and portfolio rebalancing.
- Implemented SOLID principles and design patterns, and 75% JUnit test coverage to enhance code robustness & error handling.