Sai Sreekar Siddula

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Summary

Dynamic and result-oriented Engineer with a proven track record of delivering high-quality projects within short turnaround times. Equipped with expertise in planning, designing, and executing full-stack apps, I excel in creating performant and responsive websites in React and Angular, alongside backend technologies like SpringBoot and Express.

Skills

- Programming languages: Javascript, Typescript, Python, Java
- Web Technologies: React, Angular, Express, JPA, Mongo, MySQL, Node, jQuery, UX, Figma, gRPC, REST
- Libraries: Redux, Next.js, Material UI, Bootstrap, Mock Service Worker, RxJS, ES6, npm, webpack, D3.js
- Testing: React Testing Library, Enzyme, cypress, Jest, Sinon, Jasmine, pytest, py unit-test, Junit, Selenium, Robot
- CI/CD: Git, Docker, Gitlab, Bitbucket, Heroku, Agile, Azure DevOps

Work Experience

Ductus Inc. **June 2021 - Present**

Software Engineer II

- Led multiple frontend projects for a telecom client, collaborating with their internal automation team to modernize their legacy stack. Managed full development cycle from requirements gathering to deployment and user testing
- Delivered over 10 projects in React and Angular, integrating the UX design lifecycle for user-friendly applications. Worked with cross-functional teams, translating requirements into Figma wireframes
- Spearheaded discussions on frontend architecture, optimizing patterns and libraries. Reduced turnaround time by 33%, delivering a large multi-page app in 4 months instead of the projected 6 months, by leveraging optimized architecture
- Advocated for better testing practices and trained new developers in Testing Library, Enzyme, Jest. Implemented a comprehensive testing strategy, ensuring test coverage of 90% across apps, resulting in 30% reduction in reported bugs
- Onboarded and mentored new team members, enhancing code quality through reviews and pair programming
- Updated our development lifecycle with tools like Swagger mock server, GitHub Copilot, and Figma developer mode, reducing development time by 20% and improving efficiency
- Designed and developed a custom Material UI-based component library that is used across 7 projects, reducing development time for new features by 30% and ensuring consistent UI/UX

Software Engineer Co-Op **May 2020 - Dec 2020**

- Built an internal CLI tool aimed at automating generation of CloudFormation templates, cutting down deployment time for AWS cloud resources by 40%
- Engaged in feature development with frontend team on multiple Angular projects, contributing to the creation of various components with Bootstrap for enhanced user experience
- Created a suite of VanillaJS web components used across 5 different client projects, decreasing code duplication by 10% and improving cross-framework compatibility

Education

Northeastern University **Sept 2019 - May 2021**

Master of Science in Computer Systems Engineering GPA: 4.0

Coursework: Web Development, Foundations of AI, Data mining techniques, UX Design

Shiv Nadar University **Aug 2014 - May 2018**

Bachelor of Technology in Electronics and Communication Engineering GPA: 3.7

Minor in Computer Science Engineering

Coursework: Computer Networks, Computer Architecture, Data Structures, Object Oriented Programming

Projects

Web Application for Learning Management System **March 2020**

Tools: React, Redux, Angular, JPA, Express, MySQL, Mongo, Heroku

- Developed a Learning Management System (LMS) for students and instructors, deployed on Heroku
- Built instructor version using React, JPA, and MySQL, and student version with Angular, Express, MongoDB

Creating AI Players for Sushi Go game **April 2021**

Concepts: Minimax, Alpha-Beta Pruning, Q Learning, Q Learning with Linear Function Approximation

- Created AI players using algorithms such as Minimax, Q learning to play the Sushi Go game
- These agents played against Rule-based and Random players. The agents were trained extensively and the performance of each agent at different stages of training was closely studied