

Parsharam Reddy Sudda

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Summary: Results-driven Software Engineer with over 3+ years of progressive experience in Full Stack development. Proven track record of designing, developing, and deploying robust software solutions, leveraging expertise in .Net Framework, ReactJS, and AngularJS. Skilled in dynamic layouts, algorithms, and implementing CI/CD integrations. Committed to delivering high-quality, secure, and scalable solutions.

Education:

- Master's in Computer Science, Michigan Technological University, Houghton, USA

Aug-2022 – Apr 2024

CGPA: 3.75/4.0

Graduate Coursework: Technical coursework encompassing Advanced Algorithms & Data Structures, Object-Oriented Programming(OOPS), Computer Architecture, Operating Systems, Web Technologies, Machine Learning, and other advanced Computer Science concepts.

Technical Skillset

Languages

- C#
- Java
- Javascript
- Typescript
- HTML5
- CSS
- SCSS
- SQL

Tech Stack

- .Net Core
- Entity Framework Core
- ASP .Net Web API
- Angular
- React JS
- Next JS
- Tailwind CSS

Version Control / Test

- Git
- Bit Bucket
- JEST
- Enzyme
- Xunit
- Moq
- Postman

CI / CD Integrations

- Jenkins
- Kubernetes
- Docker
- Vercel
- Git Pages

Professional Experience

.Net Full Stack Engineer

Xpand Corporation

Jul 2024 - Present

Client: Contributing to the **CareerOneStop project**, a **U.S. government**-sponsored initiative.

- Redesigned critical .NET microservices using Polly and Microsoft Resilience, integrating circuit breaker, retry, and fallback mechanisms to ensure fault tolerance.
- Performed chaos engineering tests to validate system robustness under failure scenarios and improve service resilience.
- Boosted test coverage from 0% to 90% by implementing comprehensive unit and integration tests for microservices using Xunit and Moq.
- Led a full migration of the web platform to a ReactJS + Tailwind CSS stack, using Redux for state management to accelerate UI development.
- Refactored backend logic to optimize API response times using efficient algorithms and caching strategies.
- Diagnosed and resolved key frontend issues involving JavaScript, CSS, and React components, significantly enhancing UI responsiveness and UX.
- Developed modular and scalable React components aligned with design specs and accessibility standards.
- Deployed microservices and frontend apps to Azure, establishing CI/CD pipelines using Azure DevOps for continuous delivery.
- Collaborated across dev, QA, and business teams to ensure full-stack alignment and delivery of business-critical features.
- Implemented Role-Based Access Control (RBAC) within the dashboard, improving visibility and manageability of user permissions across roles.
- Standardized HTTP response codes and internal error handling across all microservices, enhancing observability and improving client-side debugging.
- Added health monitoring endpoints to all services, enabling real-time tracking of service uptime and system stats for proactive incident response.
- Implemented generic static API response methods with caching, reducing failure rates during downtime and improving UX by serving fallback data instantly.

Full Stack Developer

Mastercard

Dec 20 – Aug 22

Innovative Software Engineer with around 2 years of expertise at Mastercard, proficient in Java, React JS, My SQL, Redux, JavaScript, and implementing dynamic layouts, achieving a remarkable 98% code coverage, and seamlessly integrating CI/CD pipelines for efficient software delivery.

- Engineered and scaled web applications leveraging Java, JSP, ReactJS, NextJS, and JavaScript, ensuring high performance and maintainability.
- Enhanced code quality by achieving 90% coverage through unit testing with Junit and Jest, significantly reducing bugs and improving reliability.
- Addressed over 400 frontend tickets related to jQuery, earning the Unit award within three months of joining.
- Translated project wireframes into dynamic, maintainable code, collaborating with cross-functional teams to meet project specifications.
- Fortified application security by implementing measures against OWASP top 10 vulnerabilities, minimizing risks and safeguarding data integrity.
- Authored and optimized SQL queries, triggers, and stored procedures, effectively managing database operations and data manipulation.
- Led bug resolution efforts, playing a key role in minimizing application downtime and enhancing overall system stability.
- Advocated for and implemented Scrum practices, driving team collaboration and streamlining project delivery processes.
- Created a script to automate application setup, saving 30 minutes per debug session.
- Contributed to the migration from Spring to React, initiated production deployment activities, and streamlined project setup with scripts.

University Projects:

- Redux Dashboard:** Developed a React + Redux dashboard project, incorporating CRUD operations, Role-Based Access Control (RBAC), OpenAPI v3 integration, and Amcharts for data visualization, hosted on GitHub. Utilized Prism Mock Server for API simulation, Material UI for UI components, Jest and Enzyme for testing, and RBAC for user authorization.
- Keweenaw Time Traveller:** Led the creation of a middleware for developers to seamlessly integrate ArcGIS components into React applications, empowering efficient utilization of geospatial functionalities and data visualization through a user-friendly API.
- Departmental website:** Designed a website With the coordination of the Head of the Department and a team of 2 members, which helped professors learn about the Academic performances of students.
- Pronoxis:** Created a Static source code analyser for PHP, which can scan up to 13 different security attacks (Including OWASP 10).

Technical Skillset

Technical Profiles

- Leetcode Problem Solver:** Successfully solved over 350 problems on Leetcode, earning 8 badges.
- Technical Mentorship:** Provided mentorship to junior developers, aiding their growth in frontend development and Agile methodologies.
- Cross-functional Collaboration:** Collaborated with design and backend teams to ensure smooth integration of frontend components, improving project efficiency.
- Continuous Learning:** Actively engaged in workshops and online courses to stay abreast of the latest frontend development technologies and best practices.

GitHub: github.com/parshuramreddysudda

LinkedIn: [linkedin.com/in/parshuramreddy/](https://www.linkedin.com/in/parshuramreddy/)

Hackrank: [hackerrank.com/profile/parshuram_sudda](https://www.hackerrank.com/profile/parshuram_sudda)

Leetcode: leetcode.com/ParshuramSudda/