

Sai Sandeep Nangineni

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PROFILE OVERVIEW

Results-driven Software Engineer with an overall **2+ years** of experience, and a solid foundation in Computer Science showcasing proficiency in **Java, Spring Boot, API Development, and ReactJS**. Adept at **full-stack development, Agile methodologies, and SDLC**. Demonstrates strong critical thinking, problem-solving, and attention to detail, ensuring the delivery of high-quality solutions. Excels in communication and teamwork, fostering seamless collaboration in cross-functional environments.

WORK EXPERIENCE

United IT | Software Engineer - Contract Position (January 2023 - Present)

- Worked on designing and developing an E-Commerce ERP using **Java J2EE Technologies, JDK8, JDK11** features, **Spring Framework, React**, and **Node**, resulting in a **30%** improvement in user experience.
- Led the **API Development** using **Spring Annotations**, designed the database, established proper schema, and configured foreign key and primary key relations, optimizing database performance. Successfully hosted the application on **Netlify**, achieving a **25%** overall efficiency increase.
- Utilized **Splunk Dashboard** for log analysis, monitoring, and alerting. **Mockito, JUnit**, and **Postman** were used for comprehensive testing, ensuring a **15%** reduction in application bugs and enhanced overall system reliability, employing object-oriented methodologies in designing, developing, debugging, and code reviews.
- Played a pivotal role in the Software Development Life Cycle (**SDLC**) through active participation in stand-ups, stakeholder collaboration, and testing phases. Applied **Agile (SCRUM)** development techniques, leading to a **30%** increase in project efficiency and collaboration.

Gayatri Projects Private Limited | Software Engineer Intern (October 2020 - August 2021)

- Led the development of a statewide **Business Application** to process data from over **200** agencies, aligning with legislative mandates. Overcame the challenge of optimizing SQL queries for statistical reports involving **1 million records**, resulting in a **65%** reduction in processing time.
- Conducted a meticulous analysis of existing **SQL queries**, identifying and addressing bottlenecks. Restructured queries, optimized indexes, and minimized redundant operations to enhance efficiency. These optimizations led to a significant processing time reduction.
- Performed thorough **Unit and Integration Testing** to ensure seamless system functionality. Created comprehensive documentation detailing optimization steps and technical decisions for future reference, and deployed the application on **GitHub Pages** for seamless access.

EDUCATION

Masters of Science in Computer Science • California State University, East Bay, CA (**August 2021 - December 2022**)

Coursework: Web Systems, Object-Oriented Design, Information Security, Advanced Algorithms, Operating Systems Design

Bachelor of Engineering in Computer Science • Gokaraju Rangaraju Institute of Engineering and Technology (**August 2017 - July 2021**)

Coursework: Data Structures, Database Management Systems(DBMS), Object-Oriented Programming

TECHNICAL SKILLS

Programming languages and Frameworks: Java, Python, C, C++, JavaScript, Spring Boot, .NET

Database management: MySQL, PostgreSQL, MongoDB, Oracle, DynamoDB

Web technologies: HTML, CSS, React, Angular, Vue.js, Node.js

Methodologies and Containerization: Agile, Scrum, DevOps, Kubernetes, Docker

Cloud technologies and Tools: AWS, Azure, Google Cloud, Kafka, Jira

ACADEMIC PROJECTS

MERN Stack Web Application | Reactjs, Express.js, Node.js

- Conceptualized and designed a Farmer's Club web application using the MERN stack, achieving a **30%** boost in user engagement. Provided statistical insights on crop yield growth, leading to improved member interaction.
- Integrated an e-commerce platform using **React DOM**, and **RESTful Web Services** resulting in increased apparel purchases. Implemented a **Role-Based Authentication system**, tailoring interfaces for distinct roles (member/non-member/admin).
- Improved and executed testing scripts using **Mocha** with **Chai assertions**, guaranteeing application reliability and performance. Ensured backend integrity through rigorous unit testing, resulting in optimal functionality and performance.

Delivery Routing Application | Reactjs, Google Maps Platform

- Developed a mobile application for delivery drivers using **React, HTML, CSS**, and **NodeJS** and optimized routes for multiple destinations reducing travel time.
- Leveraged **TomTom map SDK** for real-time traffic updates, resulting in a **20%** reduction in average delivery time. Expanded functionality to calculate routes for various transport modes, achieving a **15%** improvement in route accuracy.
- Enhanced default car route for efficiency, leading to an **8%** decrease in fuel consumption per trip, and deployed the application on **Heroku**.

Serverless URL Shortener | AWS, JAVA, API gateways, DynamoDB

- Spearheaded the development of a Serverless URL Shortener, achieving an impressive **10 milliseconds** of latency, enhancing user experience significantly. **React.js, HTML, CSS**, and **JavaScript** were utilized to seamlessly implement **GET** and **POST** methods, resulting in efficient short URL redirection and token value storage.
- Employed **NoSQL DynamoDB** for optimal storage of short and destination URLs, leading to a **30%** improvement in system performance and data management efficiency.
- Orchestrated a streamlined hosting solution on **AWS S3** bucket with Lambda functions, resulting in a fast redirection of shortened URLs and a **25%** boost in overall user satisfaction.

CERTIFICATIONS

LinkedIn - Continuous Integration / Continuous Deployment for Cloud Native Java Apps - CI/CD Jenkins Pipelines (Aug 2023)

GreatLearning - Microsoft Azure Certification (Aug 2023)

HackerRank - Rest API and SQL Certification (June 2023)

FreeCodeCamp - Back End Microservices Development and APIs | NodeJS, MongoDB (Sep 2022)

Oracle - Database Design and Database Programming (June 2019)