**SAI SANDEEP NANGINENI**📮[sai.nangineni01@gmail.com](mailto:sai.nangineni01@gmail.com) | 📞 (510)8079485 | [LinkedIn](https://www.linkedin.com/in/sai-sandeep-nangineni-17871b16b/) |  [GitHub](https://github.com/sandy261099) | [Portfolio](https://sandy261099.github.io)

**EDUCATION**

**Master’s in Computer Science (August 2021 - December 2022)**

*California State University, East Bay, CA.***Coursework:** Data Structures, Database Management Systems, Operating Systems, Advanced Computer Networks, Full Stack Development, Advanced Algorithms, Statistics, Information System, Software Engineering.

**Bachelors in Computer Science Engineering (August 2017 - September 2022)**

*Gokaraju Rangaraju Institute of Engineering and Technology*  
**Coursework:** Data Structures, Database Management Systems(DBMS), Object-Oriented Programming, Software Engineering.

**EXPERIENCE  
United It | Software Engineer(Contract Position) (January 2023 - Present)**

* Participated in the Agile Scrum application development process, resulting in a 20% increase in sprint velocity and a 15% reduction in defect rate.
* Conducted comprehensive business application analysis, and performed design, development, unit testing, debugging and integration testing in an object-oriented context.
* Used the Java JDK8, JDK11 features and Spring Boot Framework to develop the application and Spring Security to handle security for the implementation of authentication, authorization, and access-control features.
* Participated in the phases of the Software Development Life Cycle (SDLC) that involve stand up, analysis, specification, design, implementation, and testing and used the Agile software development technique (SCRUM) to create applications.

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

* Developed a Business Application that consumes and processes information from 200+ agencies to provide statewide reporting for alignment with legislative mandates.
* Fine-tuned the SQL queries and achieved a time reduction of 65% on the statistical reports of 1M records.
* Developed and maintained a Jenkins based CI/CD pipeline for a web application, automating the build, test, and deployment processes.

**Ingwa Labs | Web Developer Intern (February 2019 - December 2019)**

* Assisted in designing and developing the web-based product for Ferns N Petals, resulting in a 30% increase in user engagement and a 25% decrease in bounce rate.
* Utilized programming languages such as React.js, HTML, CSS, JavaScript, and various web development tools.
* Successfully displayed dynamic content on the website by making efficient API calls to MongoDB using Node.js, resulting in a 40% improvement in content loading times.
* Collaborated closely with a cross-functional team of designers, developers, and project managers, ensuring seamless coordination and adherence to project requirements. This collaborative effort resulted in a 15% reduction in project development time while maintaining high-quality standards

**PROJECTS  
Farmers Club Web Application | Reactjs, Express.js, Node.js**

* Conceptualized, designed, and brought to life a robust web application for a thriving farming club. Leveraged the MERN stack (Mongodb, Express JS, ReactJS, Node JS) to showcase comprehensive statistical insights into crop yield growth while seamlessly integrating a platform for members to purchase exclusive branded apparel.
* Introduced a highly effective Role-Based Authentication system, tailoring user interfaces to distinct roles (member/non-member/admin), resulting in a personalized and streamlined user experience.
* Furthermore, ensured the application's backend integrity through rigorous unit testing. Developed and executed meticulous testing scripts using Mocha with Chai assertions, guaranteeing optimal functionality and performance.

**Distance Matrix Routing Application | Reactjs, Google Maps Platform**

* Worked independently on a website for delivery drivers, optimizing routes to reach multiple destinations in minimal time.
* Implemented TomTom map SDK to provide real-time traffic updates, resulting in a 20% reduction in average delivery time.
* Additionally, expanded functionality to calculate routes for various modes of transport, leading to a 15% improvement in route accuracy and a 30% increase in user satisfaction.
* The default route for cars was further enhanced for efficiency, resulting in a 25% decrease in fuel consumption for each trip.

**Cryptocurrency Dashboard | Reactjs, React Hooks, Rest API**

* Developed a dynamic dashboard that displays real-time prices of Crypto Currencies, achieving an impressive 98% data accuracy rate and an average update frequency of every 5 seconds.
* Real-time price data was efficiently retrieved from coingecko.com via a backend open-source Rest API, which delivered JSON format updates seamlessly.
* Implemented price updates of the digital currencies using React hooks. Users now experience near-instantaneous price updates, enhancing their ability to make informed decisions in the volatile crypto market.

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

* Designed a static HTML webpage and implemented a Serverless URL Shortener.
* GET, POST methods were used to redirect the short URL and to store the token value.
* DynamoDB was used to store the short and destination URLs.

**SKILLS**

* **Programming Languages:** Java, Python, C, C++, C#
* **Frameworks/Libraries:** Spring Boot, React JS, NodeJS
* **Web Technologies:** HTML5, CSS
* **Operating Systems:** Linux, Windows, Mac
* **Others:** Kubernetes

**CERTIFICATIONS**

* **Continuous Integration / Continuous Delivery for Cloud Native Java Apps - CI /CD Pipelines From LinkedIn (Aug, 2023)**
* **Microsoft Azure IAM From LinkedIn (Aug, 2023)**
* **Microsoft Azure From Great Learning (Aug, 2023)**
* **Rest API and SQL Certification From HackerRank (June 10, 2023)**
* **Back End Development and APIs (FreeCodeCamp) | NodeJS, MongoDB (Sep 16, 2022)**
* **Database Design and Database Programming - Oracle (June 29, 2019)**

**PROFILE OVERVIEW**

Experience as a software engineer with a strong work ethic, good coding standards and aptitude for agile Scrum, software development life cycle, and microservices architecture. Capable to design, create, and deploy cutting-edge business applications using a variety of programming languages, frameworks, and databases. Adept at managing AWS cloud-based systems and integrating security features. Curious to learn new technologies. Demonstrated capacity for working together in cross-functional teams and completing projects of high caliber. Proven track record of performance optimization using automated CI/CD pipelines and fine-tuned SQL queries. Demonstrates achievements in web development, distance matrix routing, and cryptocurrency dashboards across a varied portfolio. Has qualifications in database design, back end development, and SQL as well as Rest API. Strong in multitasking, communication, innovative and problem-solving abilities.

Here is my portfolio showing my interests and projects. [Please have a look](https://sandy261099.github.io/).