

SAI SIVA SASANK TANIKELLA

(916)-792-4691 | sasank.tanikella7@gmail.com | [linkedin.com/in/sasank-tanikella/](https://www.linkedin.com/in/sasank-tanikella/) | github.com/SasankTanikella99

EDUCATION

University of Houston-Clear Lake, USA

Aug 2021 - Dec 2023

Master of Computer Science - GPA: 3.4/4.00

Courses: Data Structures and Algorithms, Design and Algorithm Analysis, Machine Learning, Distributed Systems, Data Science

Veltech University, India

Jul 2017 - Jul 2021

Bachelor of Technology in Electronics and Communication Engineering

TECHNICAL SKILLS

Programming Languages	Python, Java, JavaScript, TypeScript,
Web Technologies	ReactJS, NestJS, NodeJS, HTML5, CSS, Tailwind, Webpack, Jest, Junit
Frameworks	Spring Boot, Express, Loopback, Figma Design
Databases	PostgreSQL, MySQL, MongoDB
Technologies	AWS, Azure web service, Kubernetes, Docker, Jenkins
Others	SwaggerUI, Postman, Git version control, Jira, JSON, Agile

WORK EXPERIENCE

Software Engineer, Technology Crest Corporation – Fair Oaks, CA, USA

Jun 2024 - Present

- Developing a web-based application to streamline POAM (Plan of Actions and Milestones) submissions, replacing Excel-based reporting with an interactive dashboard, and improving efficiency for multiple departments.
- Implementing a secure authentication system and database to manage POAM submissions and NIST maturity scores, ensuring data integrity and facilitating easier analysis.
- Working on deploying the application to Bluehost, demonstrating initiative in expanding technical skills to cover full-stack development and hosting.

Software Engineer, SAAYAM For All – San Jose, CA, USA

Jun 2023 – Jun 2024

- Implemented AWS Cognito authentication system and designed RESTful APIs with Spring Boot, solving user data management challenges across microservices and improving system reliability.
- Enhanced microservices security by implementing role-based access control with Spring Security on the backend, addressing potential vulnerabilities, achieving 90% test coverage, and ensuring compliance with data protection standards.
- Developed ReactJS app with Internationalization (I18N) and Localization (L10N) support on the frontend, expanding product accessibility to diverse global markets and increasing user engagement.
- Streamlined deployment processes by implementing a Docker-based CI/CD pipeline with Jenkins, reducing average deployment time to 24 minutes and significantly decreasing deployment-related issues.
- Actively participated in daily stand-up meetings, collaborated with team members, and contributed to brainstorming sessions fostering team cohesion and synergy.

Software Development Intern, Qtr.ai – San Jose, CA, USA

Feb 2023 – May 2023

- Engineered core logic for recurring calendar events using Prisma and NestJS, reducing event creation steps from 10 to 5, while optimizing data models and payloads that resulted in a 10% improvement in overall system efficiency.
- Implemented and refactored RESTful APIs improving response times by 15%. Designed efficient data models and payload structures for calendar event logic, enhancing data transfer and processing. Developed comprehensive API documentation using SwaggerUI.
- Demonstrated strong adherence to Agile methodologies, actively participated in daily SCRUM meetings, contributed to sprint planning and retrospectives, and improved cross-functional collaboration.

Software Development Intern, Indian Servers – Vijayawada, AP, India

Aug 2020 – Nov 2020

- Implementation of advanced machine learning algorithms, and neural networks resulting in a 10% accuracy improvement for critical predictive software solutions in healthcare, specifically for diseases such as Diabetes, Asthma, and Obesity.
- Collaborated seamlessly within a dynamic and agile team, comprising accomplished data scientists and software engineers
- Utilized Snowflake's cloud-based data warehousing platform to support data storage, processing, and analysis tasks, facilitating efficient data sharing and integration with machine learning workflows.

PROJECT

Yonder Yurt, A Hotel Booking application using TYPESCRIPT, MONGODB, EXPRESS, NODE, REACT

- Developed a full-stack hotel booking application with dynamic UI, secure authentication, and CRUD operations for users, hotels, and bookings.
- Implemented advanced features including Stripe payment integration, Cloudinary image management, multi-language and currency support, and AI-powered recommendations.
- Engineered end-to-end testing using Playwright and deployed the application on Render.com, applying modern web development practices and DevOps principles.