

Sai Dudala

Software Engineer

(214) 876-4108 | saicharandudala@gmail.com | United States | Open to Remote | Open to Relocate | [LinkedIn](#) | [GitHub](#)

SUMMARY

Software Engineer with over 3 years of experience in backend development, specializing in C++, Python, and data-driven system design. Holds a Master's in Computer Science, bringing strong skills in cloud platforms, distributed data processing, and automated testing. Known for delivering secure, maintainable code in fast-paced environments, with a focus on system scalability, performance, and effective troubleshooting. Experienced in working with distributed systems and cloud infrastructure, including containerization and metrics monitoring.

WORK EXPERIENCE

Software Engineer

Jul '24 — Present

Nestor Technologies

New Jersey, United States

- Developed and maintained backend systems using C++ and Go, focusing on high-performance, scalable solutions for data ingestion and distributed systems.
- Built and optimized data pipelines, handling high-volume data with Kubernetes and Kafka to streamline deployment in cloud infrastructure, ensuring efficiency and reliability.
- Designed and executed test cases for APIs, leveraging DevOps practices and Terraform for automated testing and deployment, maintaining consistent code quality and metrics.
- Participated in Agile sprints, conducting code reviews and troubleshooting system issues to improve application stability, scalability, and security.

Graduate Teaching Assistant

Jan '23 — Dec '23

Auburn University at Montgomery

Montgomery, United States

- Delivered lectures on programming fundamentals, focusing on backend development, automated testing, and distributed systems design using C++ and Go.
- Developed curriculum content on data processing, API integration, and analytics techniques, linking academic concepts to practical applications in cloud infrastructure.
- Guided students in writing test cases and troubleshooting code, emphasizing best practices in code maintainability, logging, and quality assurance.

Software Developer

May '20 — Jul '22

Tata Consultancy Services Limited Hyderabad

Hyderabad, India

- Built and tested backend infrastructure for a healthcare data platform, implementing APIs and automating workflows with Twilio for efficient data storage and handling.
- Used containerization to deploy scalable applications, integrating with GCP and Azure cloud-based solutions to enhance system performance and reliability.
- Documented technical solutions and created automated tests, ensuring stable deployments and reducing operational overhead using DynamoDB and ClickHouse for data management.

EDUCATION

Master's in Computer Science, Auburn University at Montgomery (GPA: 4.0/4.0)

Aug '22 — May '24

Montgomery, United States

- Awarded a Graduate Research Assistantship

Bachelor's in Computer Science, Bapatla Engineering College (GPA: 9.12/10.00)

Aug '16 — Apr '20

Bapatla, India

CERTIFICATIONS

AWS Certified Solution Architect Associate

AWS

Jan '01

Google Certified Professional Data Engineer

Google

Jul '01

PROJECTS

Full-Stack Application [Link](#)

Feb '24 — Mar '24

- Engineered and maintained a full-stack web application with a React Redux-based Front End admin panel, leveraging Vite and Kubernetes for containerization, ensuring seamless integration across multiple platforms.
- Developed a robust backend infrastructure using Node.js, Express, and MongoDB, implementing models, controllers, and components for seamless API management and integration with web applications, including RESTful services.

- Integrated Front End, backend, and admin modules to ensure smooth workflows and customer experience, handling authentication, implementing JUnit for unit testing, and optimizing user interaction using Go, Javascript, HTML.

Portfolio Website [Link](#)

Jan '24 — Jan '24

- Developed a responsive Front End portfolio website using React, TypeScript, and HTML to showcase projects, skills, and Academic Background, highlighting proficiency in modern Technology Trends, web applications design, and Swift.
- Utilized a modular component structure for efficient implementation, integrating features such as contact forms, resume downloads, and skill display, ensuring a secure and scalable codebase with cloud infrastructure support for Azure and GCP.
- Deployed the website with optimized build configurations , ensuring fast load times and smooth user interactions across devices.

SKILLS

Programming Languages Python, Java, SQL, Go

Frameworks and Libraries HTML, React, Angular, Spring, API integration, Redux, Node.JS

Databases Mysql, SQL Server, Oracle, MongoDB

Cloud and Container Technologies AWS , Docker, Kubernetes

Data Technologies Kafka, DynamoDB, ClickHouse

Testing and Automation Postman, Selenium, Junit, pytest

Version Control and CI/CD Git, Jenkins

Methodologies Agile, Scrum, TDD, SDLC