Saideep Samineni

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EDUCATION

Northeastern University | Master of Science in Computer Science | GPA: 3.7

Jan 2023 - May 2025

Courses - Algorithms, Web Development, Program Design Paradigm, Artificial Intelligence, Machine Learning,

EXPERIENCE

Khoury College of Computer Science | *Graduate Teaching Assistant - Software Engineering*

Jan 2024 - Present

Boston, MA

React, TypeScript, Next.is, Jest, Styker

• Development and maintenance of Covey. Town, a virtual platform facilitating interaction and collaborative development of engaging projects and games by digital players. Engineered using Next.js, Node.js and Jest unit tested

SHIASH | Backend Engineer Intern

Oct 2021 - Mar 2022

Spring Boot, AWS, PostgreSQL, Docker, WebSocket, Elastic Search, Kibana

Chennai, India

- Contributed to the design of a scalable e-commerce platform, enhancing performance with microservices, PostgreSOL optimization, Redis caching, and high-throughput API development for improved deployment efficiency and transactional robustness.
- Implemented a CI/CD pipeline, utilizing Docker for containerization and Jenkins for automation, which cut deployment times by 84% and significantly increased the frequency of new releases.
- Improved search and analytics by integrating Kafka and Logstash, enabling real-time data analysis with Kibana, enhancing search accuracy and system insights.
- Implemented and maintained comprehensive JUnit test suites across microservices to ensure code quality and stability. This resulted in a 93% success rate in first-time deployments and minimized post-deployment issues.

Sri Sigma Technologies | Full Stack Engineer

Jan 2021 - Aug 2021

Python, Flask, Python, ELK, PostgreSQL, RabbitMQ, AWS

Toronto, Canada

- · Contributed significantly to the EdTech website architecture and designed RESTful APIs that improved data exchange efficiency by 40% and bolstered system performance and reliability.
- Developed client-side interfaces using React, creating an interactive and responsive user experience. Combined with TypeScript for static typing, this approach ensured code maintainability and reduced errors by 25%.
- Implemented event-driven backend services in **Node.is** and rigorously tested using **Jest** to maintain code quality, functionality and deployed on AWS, capitalizing on the cloud's scalable and resilient infrastructure.
- Enhanced API endpoint performance by employing optimization techniques, reducing latency and improving data handling efficiency. This effort significantly improved page loading times, cutting them by 54%, thereby enriching the user experience across various web browsers.

TECHNICAL SKILLS

Languages JavaScript, Python, TypeScript, Java, Ruby On Rails, C, .NET, HTML, CSS

Frameworks React, React Native, Redux, RESTful, Angular, Node.js, Elastic Search, Kibana, Spring.

Development & Database PostgreSQL, MongoDB, SQL, MySQL, DynamoDB

Cloud & DevOps Git, AWS (EC2, CloudWatch, S3), EKS(Docker, Kubernetes), Terraform, Jenkins, RabbitMQ Tools

Tomcat, Swagger, Styker, Postman, Maven, Selenium, TestNG, SoapUI, Jira, Bitbucket, Mocha

PROJECTS

Secure Real-Time Financial Analytics Platform | DynamoDB, Terraform, ElastiCache Redis, Lambda, VPC

- Implemented a real-time analytics update mechanism by triggering Lambda functions with DynamoDB Streams to refresh ElastiCache for Redis, enhancing dashboard responsiveness.
- Rolled out a secure, scalable platform on AWS using Terraform, EKS and Lambda, cutting deployment times by 50%.
- Utilized AWS Lambda for efficient, event-driven processing of real-time financial data from the Alpha Vantage API, boosting analytics dashboard insights.
- Ensured high availability and security within AWS VPC by deploying Auto Scaling Groups, Load Balancers, and a Bastion Host, along with a secure API Gateway for robust API management.

Caption Craft | MERN, GraphQL, Machine Learning (GANs), Jest, TypeScript, WebRTC, Socket.io |Github

- Engineered "Caption Craft" with the MERN stack, blending AI-powered art generation (GANs) with user interaction, achieving a seamless full-stack experience.
- Leveraged Redux for state management and Socket.io for real-time communication, enhancing user experience and reducing server load by 38% through the integration of **Hugging Face APIs**.
- Integrated social networking features, including friend connections, by employing GraphQL for efficient data queries and developing algorithms for friend recommendations and an advanced search function for posts, significantly enhancing user engagement and interaction on the platform.
- Enhanced code reliability with Jest and TypeScript, integrating asynchronous testing to streamline development and reduce bugs.

CERTIFICATIONS

• AWS Certified Solutions Architect - Associate, 2024