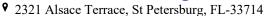
Sai Krishna Sangeetha



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Professional Summary

Ambitious and results-driven Senior Full Stack Developer with 5 years of experience in designing, developing, and maintaining scalable web applications. Proficient in both frontend and backend development with deep expertise in modern technologies such as Angular, React, Django, and AWS. Skilled in optimizing performance, leading cross-functional teams, and delivering high-quality software solutions.

Skills

Programming Languages: Python, TypeScript, JavaScript, Java, Ruby.

Backend Technologies & Frameworks: Django, FastAPI, Ruby on Rails, Spring Boot, Express.js, Flask, Microservices.

Frontend Technologies & Frameworks: Angular, React, HTML, CSS, Tailwind CSS, Bootstrap, jQuery, ESLint, Webpack, Babel.

AWS: RDS, CloudFront, CloudWatch, EC2, Cloud Formation, Certificate Manager, Key Management Service, Route 53, S3, IAM, IAM Identity Centre, Lambda, DynamoDB, API Gateway, Step Functions, DocumentDB, AppConfig, SES, SQS, Glue, AWS Cognito.

Database Technologies: SQL, MySQL, NoSQL, PostgreSQL, MongoDB.

CI/CD Tools: Docker, Kubernetes, GitHub Actions, Jenkins, CircleCI, Git, GitLab, Bitbucket.

Others: GraphQL, CI/CD, TDD/BDD, Node.js, Next.js, Apollo Client, SonarQube, Kafka, Cypress, Jasmine, Karma, ETL, Groovy, JUnit, REST, Postman, New Relic, SEO, Figma, Design Patterns, Stripe, System Analysis & Design, OAuth, JWT, SSO, IAC, SAAS, Agile.

Experience

o Senior Full Stack Developer, AgWise LLC, St. Petersburg, Florida

Mar 2024 - Present

- Developed scalable web apps using Angular, Django, and MySQL, ensuring optimal performance, security, and user experience.
- Improved response time of the application by mgrating from REST to GraphQL, enabling efficient and flexible data retrieval.
- Architected and implemented an ETL system utilizing AWS Serverless Architecture to process customer CSV files and generate data-driven recommendations, increasing revenue by 30%.
- Pioneered CI/CD pipeline development using Bit Bucket, AWS CodePipeline, automating build uploads and cache invalidations, reducing manual deployment efforts by 100%.
- Collaborated with UI/UX developers to create responsive and accessible front-end components using Angular and Tailwind CSS.
- · Projects:
- o *Foliar Script*: Spearheaded Foliar Script using **Angular, Django, GraphQL** to generate recommendations based on plant tissue tests, featuring **multi-user privilege functionality**. Collaborated directly with laboratories, agronomists, and farmers to provide tailored solutions.
- o <u>CI-Score</u>: Programmed a Carbon Intensity Calculator adhering to IRS guidelines for 45Z and 40B tax credits, leveraging React, Django and GraphQL to provide precise recommendations for farmers, thereby optimizing tax credit eligibility and boosting revenue by 40%.
- o <u>Haney AI</u>: Developing a ML model using regression techniques to provide soil analysis recommendations to farmers, aiming a 40% increase in customer acquisition and revenue.

o Graduate Research Assistant, CECS Department, UCF

Aug 2023 - May 2024

- · Developed a responsive UI using React and CSS Modules, incorporating dynamic dropdowns and real-time search displays to enhance UX.
- Incorporated GraphQL endpoints with in a React framework to streamline and optimize data retrieval process.
- · Utilized JML annotations to define formal specifications for critical programs, ensuring adherence to intended behaviour and functionality.

o Software Development Engineer, Freshworks Inc, India

Jan 2019 - July 2022

- Launched 20+ RESTful APIs in Ruby on Rails, integrating Microservices, Redis, for scalable and responsive backend infrastructure.
- Deployed 45+ highly efficient serverless APIs using AWS Lambda and API Gateway, optimizing performance.
- Developed and executed **unit tests** using **RSpec**, ensuring proper test coverage and functionality of new features.
- Implemented automation test suite using Selenium WebDriver, which increased test coverage by 30% and improved test execution time by 50%.
- Projects:
- o *Release Process Automation*: Streamlined the CI/CD pipeline in **Jenkins**, automatically notifying stakeholders and managing deployments in environments, including migrations. This led to a 90% decrease in manual tasks and doubled daily deployments.
- o Root Cause Analysis (RCA) Report Analyser: Architected methods to analyse failures using failure messages, past records, job names, and test case IDs. Compiling data from 61 Jenkins jobs into a detailed Google Sheet, streamlined the identification of defects in deployments.
- o Automated Coverage Report Organizer and Analyser: Developed a method to sort RSpec reports by squad title and automated bug assignment from pull request results. Enhanced security and efficiency by linking AWS S3 with Jenkins and a Ruby script.
- o Automated CI for PRs: Built a feature to improve transparency in quality checks for each PR, covering evaluations, migration, and Docker image checks. This integration offers clear insights for managers and tech architects, accelerating production deployment.

Education

o University of Central Florida, Orlando (UCF), Masters in Computer Science — GPA: 3.93/4.0

May 2024

o SASTRA University, India, Bachelors of Technology in Information Technology

May 2019

Projects

- o **GPT-Powered ChatBot**: Built a full-stack chatbot application using React (TypeScript) for the frontend and FastAPI (Python) for the backend. Integrated GPT-3.5 Turbo for responses, Redis for caching, and PostgreSQL for database management.
- o Online Workers Hiring System: Designed and developed this software prototype with React.js, JavaScript, and React-Bootstrap, featuring user authentication and dynamic interfaces. Maintained a cohesive modern design through React-Bootstrap integration.
- Deep Neural Network Compression: Proposed a novel CNN pruning criterion based on explainable AI ideas and transfer learning, achieving a 90% reduction in model size with accuracy of 83%.
- o Detecting Abusive Comments in Multiple Languages: Trained a BERT-based Machine Learning model pre-trained on the MURIL dataset to effectively detect abusive comments in diverse Indian languages. Achieved 81% of high accuracy for the proposed model.

Certifications & Achievements

- o [2023] AWS Certified Solutions Architect-Associate.
- o [2023] Obtained certification from freeCodeCamp.org for Responsive Web Design. Built 5 projects as part of the certification.
- $\circ \ [2023] \ Member \ \textbf{Badminton Club, Data Science Club, Google Developers Community Club}.$
- o [2022] Secured a place in the top 5 in the Hackathon at Freshworks Inc.
- o [2021] "Will it Make the Boat Go Faster", and "Annual Sprint Champion-2020" awardee for outstanding contribution at Freshworks Inc.,