

# 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

○ **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 migrating 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 **AWS CodePipeline, CodeBuild, S3 and CloudFront**, 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:**
  - 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.
  - CI-Score:** 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%**.
  - Haney AI:** Developing a **ML model using regression techniques** to provide soil analysis recommendations to farmers, aiming a **40%** increase in customer acquisition and revenue.

○ **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 within 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.

○ **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:**
  - 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.
  - 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.
  - 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**.
  - 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

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

**May 2024**

○ **SASTRA University, India, Bachelors of Technology in Information Technology**

**May 2019**

## Projects

- **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.
- **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%**.
- **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

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