SAISANTHOSH GOUD ADDLA

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EDUCATION

University of Florida, Gainesville **Jan 2023 - Dec 2024**
Master of Science in Computer Science

VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad **Aug 2017 - Jul 2021**
Bachelor of Technology in Computer Science and Engineering

SKILLS

Languages:	Java, Python, R, JavaScript, HTML, CSS, C, CPP, SQL, C#.
Databases:	MySQL, Oracle, Google Firebase, PostgreSQL, Spanner and MongoDB.
Frameworks:	Spring, JUnit, Hibernate, Angular, ReactJS, Django, AppsFramework, .NET.
Tools:	Git, Visual studio, Power BI, Cider, Eclipse, Bazel, Jenkins, Sonar Lint.
Web Services:	SOAP, REST, gRPC, GraphQL
Cloud Technologies:	Docker, Kubernetes, GCP, AWS.

PROFESSIONAL EXPERIENCE

Software Engineer: University of Florida, Gainesville **Apr 2023 - Dec 2024**

- Designed and implemented an advanced architecture for selecting optimal chemicals for plant growth across varied environments and soil types, leveraging genomic and phenotypic data.
- Leveraged Python's MPI and CUDA-enabled GPUs to achieve a 40% reduction in processing time for parallel data tasks.
- Integrated advanced optimization techniques such as Nelder-Mead, easyPheno, and Particle Swarm Optimization, improving precision by 20% and boosting overall model performance by 25%.
- Extracted and visualized chemical parameters using Python, R, Seaborn, and Tableau, leading to deeper insights and enhancing data-driven research outcomes.

Software Development Engineer: Epam Systems, Hyderabad, TS **Oct 2021 – Dec 2022**

- Engaged as a full-stack developer, contributing to the development and maintenance of internal applications for Google Maps, involving both front-end and back-end tasks, and collaborating with a cross-functional team to increase the optimal functionality and user experience of the applications.
- Migrated legacy SOAP APIs to REST APIs and developed new RESTful APIs using Spring Boot and Java, implementing a microservices architecture. This transition contributed to a 32% reduction in latency, enhancing overall system performance.
- Developed plugins for data collection used for maps with Python, Google Colab, and Protocol Buffers.
- Designed, developed, and maintained highly scalable and low-latency RESTful and gRPC-based Java microservices from scratch, capable of processing large files and facilitating a secure approval workflow.
- Developed comprehensive unit test cases using JUnit and Mockito, leading to a substantial improvement in code coverage by 41%.
- Worked closely with DevOps teams to manage deployment on GCP using Docker containers and Kubernetes clusters, achieving a 10% reduction in deployment times and significantly improving system scalability, resilience, and resource allocation.
- Played a significant part in mentoring and providing advice to interns, conducting code reviews that resulted in a 23% decrease in the number of bugs and a noticeable improvement in overall code readability.

Software Development Engineer Intern: Epam Systems, Hyderabad, TS **May 2021 – Sep 2021**

- Engaged collaboratively in an agile framework with cross-functional teams, actively participating in 100% of daily scrum sessions.
- Implemented key features as part of the development of EPAM’s internal Refer Portal application, improving referral process efficiency by 15%, which resulted in a 10% increase in user engagement and faster referral tracking.

PROJECTS

Vaccine Management System

- Designed and implemented a microservice-based architecture with separate services for user management and vaccine management, connected via Netflix Eureka for service discovery.
- Utilized Spring Cloud Config for real-time configuration updates and Spring Gateway to implement a gateway for accessing the core application.
- Built with Angular for the frontend, and JPA Hibernate for data persistence, ensuring thorough testing with JUnit and Mockito for backend reliability.

GatorChef's - Recipe Sharing Tool

- Developed a full-stack web application, reducing recipe sharing time by 50% by automating key tasks such as recipe descriptions and ingredient categorization using OpenAI SDK, integrated with React, Node.js, and MongoDB.
- Achieved 95% user authentication success rate through Clerk integration, and optimized image serving speed by 30% using Cloudflare Images, ensuring seamless performance across major desktop and mobile browsers.
- Enhanced community safety by implementing AI-powered spam filtration, allergen detection, and health insights, improving content accuracy and safety by 40%.