

Geetha Krishna Mannava

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SUMMARY

Skilled software developer with 3+ years of expertise in designing, developing, testing and automating RESTful web applications. Proficient in full-stack development with a strong focus on optimizing user interfaces and backend systems for seamless performance. Extensive experience in streamlining workflows, delivering robust and scalable solutions. Skilled in developing efficient, data-driven applications. Adept at leveraging cloud platforms for scalable deployments, automating infrastructure management, optimizing costs and enhancing system reliability to ensure faster performance and reduced downtime. Committed to deliver high-performance web solutions in agile environments and driving results across diverse projects.

SKILLS

Programming:	Python, Java, SQL, JavaScript, HTML, CSS
Technologies and Tools:	MySQL, MongoDB, Spring Boot, React.js, Flask, AWS, Docker, Kubernetes, JSON, XML, Figma
Platforms:	Linux, Windows, MacOS

PROFESSIONAL EXPERIENCE

Programmer Analyst, Tek Objects Inc, Atlanta, USA Aug 2024 – Present

- Streamlined and automated the deployment process, reducing deployment time by 30% and significantly enhancing the overall deployment efficiency.
- Developed modular, reusable code structures, enhancing code maintainability and reducing development time for new features by 20%.

Programmer Analyst Trainee, Cognizant, Bangalore, India Aug 2021 – Aug 2022

- Contributed to the development of a secure payment processing module for an U.S.-based manufacturing company, which processed over 2 million transactions totaling more than \$100M, achieving a remarkable uptime of 99.99%.
- Improved data access speed and management efficiency of the microservice, resulting in 20% faster retrieval and a 15% boost in efficiency.
- Enhanced test coverage from 78% to 89% by implementing extensive unit and integration tests that resulted in a 20% reduction in critical bugs found during QA testing.

Full Stack Developer, E-Digital Technologies, Guntur, India Jul 2019 – Aug 2021

- Redesigned and optimized the client dashboard, enhancing user experience and increasing user engagement by 12%.
- Developed and integrated scalable RESTful APIs, ensuring seamless integration between the frontend and backend systems, reducing response time by 20%.
- Enhanced database operations and automated backend processes to streamline the data retrieval and processing.
- Implemented data validation and error handling, reducing data-related issues by 50% and introduced automated tests that identified and resolved 90% of potential issues before deployment.
- Automated routine tasks, minimizing manual intervention by 30%, which improved overall workflow efficiency.

PROJECTS

Task Tree Generation for Robotic Cooking using LLMs | *Generative AI, Python* Mar 2024 – Apr 2024

- Found 15% enhancement in the accuracy of task tree generation on universities cafeteria menu using Gemini compared to GPT v3.5 with different prompting approaches.
- Enhanced the correctness of LLMs in task tree output generation by 73% using N-shot prompting technique with structured reasoning and conditional statements.

Smart Grocery Management Application | *MERN stack* Aug 2023 – Nov 2023

- Automated grocery shopping lists creation by tracking the expiration dates of the products, resulting in a reduction of food items wastage by 81.25%.
- Boosted user satisfaction level by 57% by integrating user feedback from surveys, addressing their requirements and concerns that resulted in a 37% increase in adoption of our application over their existing conventional methods.

Retail Banking System | *Spring Boot, AWS* Jan 2023 – May 2023

- Utilized Spring Security, JWT for secured authentication, authorization of the application and implemented a synchronous transaction service, achieving **99.99% uptime for seamless banking transactions**.
- Leveraged Continuous Integration, Continuous Deployment (CI/CD) pipelines to deploy **5 dockerized microservices** into AWS ECR, orchestrated the containers using AWS ECS, integrated Lambda functions and S3 for optimized cloud infrastructure.

EDUCATION

- Master of Science in Computer Science**, University of South Florida, Tampa, FL Aug 2022 – May 2024
GPA: 4.0