

MANISH REDDY GOLI

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SUMMARY

- Full Stack Developer with 4+ years of experience in designing, developing, and deploying end-to-end web applications using Python, Django, React.js, Vue.js, and Node.js, with strong proficiency in both frontend and backend development.
- Proven expertise in cloud platforms such as AWS (EC2, S3, Lambda) and Netlify, coupled with Docker, Kubernetes, and Jenkins for DevOps and scalable deployment, boosting deployment efficiency by 60% and ensuring 99.9% uptime.
- Developed and optimized a large-scale systems including a construction management platform and task tracking application, delivering performance gains like 25% faster project completion and 40% improved page load speeds.
- Managed the integration of CI/CD pipelines, leveraging Jenkins and Docker, which automated build and deployment processes, shortening deployment cycles by 40% and decreasing rollback incidents by 30%.
- Solid foundation in Machine Learning and AI, with hands-on experience developing real-time prediction and plant disease detection models using Scikit-learn, TensorFlow, and PyTorch, achieving up to 92% accuracy.
- Conceived RESTful APIs, decreasing latency by 40%, and oversaw database management across PostgreSQL, MongoDB, and MySQL, boosting application performance and data accessibility.
- Demonstrated leadership and collaboration through Agile development practices, contributing to a 25% acceleration in project delivery and a 15% reduction in post-deployment bugs by aligning teams with JIRA and GitHub workflows.
- Maintained a 3.925 GPA while mastering cloud computing, software design, and machine learning; researched optimized deep learning models which improved crop disease detection accuracy by 15% using NSF funding.

SKILLS

- **Languages:** Python, JavaScript (ES6+), TypeScript, Java, C++, SQL
- **Frontend:** React.js, Next.js, Redux, HTML5, CSS3, Tailwind CSS, Bootstrap
- **Backend:** Node.js, Express.js, Flask, Spring Boot, .NET, RESTful & GraphQL APIs
- **Databases:** MongoDB, MySQL, PostgreSQL, Redis, DynamoDB
- **DevOps & Cloud:** AWS (EC2, S3, Lambda, API Gateway), Docker, Kubernetes, Terraform, Jenkins, GitHub Actions
- **Testing:** Jest, Postman, Mocha, Selenium
- **Tools & Practices:** Git, GitHub, JIRA, Agile (Scrum), CI/CD, Swagger, System Design
- **Machine Learning:** Scikit-learn, TensorFlow, PyTorch, NLP, CNN, Data Visualization (Matplotlib, Seaborn)

EXPERIENCE

Graduate Assistant | University of Southern Mississippi.

Jan 2024 - Present

- Resolved 15+ weekly technical issues by writing and debugging Python scripts, enhancing system reliability and reducing student downtime by 30% in a high-demand academic lab.
- Mentored 10+ students in Python and automation fundamentals, fostering a collaborative, skill-enhancing environment that supported academic success.
- Managed lab infrastructure by troubleshooting 20+ hardware/software issues per week and maintaining 99.9% uptime for essential tools; personally assisted 5+ students daily.

Full Stack Developer | Marcellus Infotech.

Jun 2021 – Jul 2023

Skills: Django, PostgreSQL, JavaScript, HTML, CSS, AWS IAM, Docker, AWS EC2, UI/UX Design, Agile Development.

- Developed a full-stack web application using Django and PostgreSQL for a construction client, streamlining project management and worker scheduling, which resulted in a 25% boost in on-time project completion.
- Constructed a user-friendly interface with JavaScript, HTML, and CSS that allowed construction workers to easily log 5000+ hours per week, helping to ensure accurate project cost tracking.
- Established database backup and recovery procedures using PostgreSQL, ensuring zero critical data loss and minimizing downtime to under 1 hour in simulated disaster recovery tests.
- Engineered a mobile-first UI that enabled project managers to update job statuses 60% faster, assign 100+ daily tasks, and track real-time team progress across job sites.
- Implemented a zero-trust role-based access control (RBAC) system using AWS IAM, limiting access to

sensitive project data for 100+ users across admin, supervisor, and worker roles.

- Deployed a containerized full-stack application using Docker on AWS EC2, designing the architecture the infrastructure for high performance, low latency, and auto-scaling to support growing user demand.
- Facilitated daily stand-ups with the client, translating feedback into actionable tasks and prioritizing workflow improvements, leading to a 20% decrease in reported user friction.

Web Developer | Osmania University

Jan 2021 – May 2021

Skills: Vue.js, React.js, Node.js, Express.js, Bootstrap, MySQL, MongoDB

- Constructed a responsive website for Osmania University's newspaper using HTML, CSS, and JavaScript, decreasing page load times by 40% on mobile devices and ensured enhanced accessibility for all users.
- Partnered with designers and content writers to build a visually appealing website, which increased subscription sign-ups by 15% within the first month of launch.
- Collaborated closely with the team to refresh UI components using React, resulting in a noteworthy 20% uptick in user engagement.
- Maintained uniform website design and user experience across the university web pages by implementing bi-weekly HTML/CSS updates, reducing user-reported design flaws by 40% and improving accessibility scores.
- Integrated interactive elements, such as intuitive forms and buttons, which led to a remarkable 15% surge in user engagement and online interactions.
- Facilitated 30+ collaborative code reviews, furnishing actionable recommendations that bolstered code quality scores by 20% and reduced post-deployment bugs found by QA by 15%.
- Conducted regular testing routines that enhanced code stability by 40% and reduced critical website errors by 25%, resulting in a measurable increase in overall user satisfaction.

RESEARCH EXPERIENCE

Ramie Crop Disease Monitoring | NSF-Funded Project

Aug 2023 – Dec 2023

Skills: AI, Machine Learning.

- Developed and trained advanced machine learning (ML) and deep learning (DL) models, including CNNs, VGG16, and ResNet50, to detect plant diseases, achieving 92% classification accuracy.
- Processed and analyzed a dataset of over 2,310 images to enhance disease classification performance using TensorFlow and PyTorch.
- Designed and implemented a scalable cloud-based architecture utilizing AWS Lambda and S3 for efficient model inference and deployment, ensuring seamless integration into the monitoring system.

PROJECTS

Python-Based Student Performance Prediction System

Jan 2024 – May 2024

Skills: Python, Streamlit, Machine Learning, Data Analysis, Predictive Modeling.

- Designed and deployed a Student Performance Prediction Tool using Python and Streamlit, enabling real-time analysis of academic data and contributing to a 20% reduction in failing grades through targeted intervention strategies.

Task Management Web Application

Jul 2022 – May 2023

Skills: Python, Flask, React.js, PostgreSQL, RESTful APIs, Docker, Heroku, Full-Stack Development, Deployment.

- Engineered a full-stack task management application using Python (Flask) and React.js, integrating PostgreSQL for data management and RESTful APIs, resulting in 500+ weekly active users within one month.
- Pioneered the deployment of a End-to-end task tracking system on Heroku with Docker, guaranteeing a 99.9% uptime and zero downtime deployments; also integrated custom rollback scripts.

CERTIFICATES

- Responsive Web Design – FREE CODE CAMP.
- Database Programming with SQL Certification – IIT BOMBAY.
- AWS Cloud Practitioner Essentials – AWS.
- Certificate of Appreciation in Full Stack Development – MARCELLUS INFOTECH.
- Certified in Java Fundamentals – ORACLE ACADEMY.
- Web Development and Designing – OASIS INFOBYTE

EDUCATION

University of Southern Mississippi | Hattiesburg, MS

Aug 2023 - May 2025

Masters in Computer Science | Grade: 3.925/4