

# MANISH REDDY GOLI

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## EDUCATION

**University of Southern Mississippi | Hattiesburg, MS**  
Masters in Computer Science | Grade: 3.925/4

**Aug 2023 - May 2025**

## TECHNICAL SKILLS

- **Languages:** Python (Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch), C/C++, SQL, R, Java (Basics).
- **Front-End:** HTML5, CSS, Bootstrap, JavaScript, React.js, TypeScript.
- **Databases:** MySQL, PostgreSQL, MongoDB, Microsoft SQL Server, Oracle.
- **Back-End:** Python (Flask, FastAPI, Django), Node.js, Spring Boot, Express.js, RESTful & GraphQL APIs
- **Cloud & DevOps:** AWS (EC2, S3, Lambda, ECS, SQS, DynamoDB, API Gateway), Azure (App Services, VM, SQL Server, Functions), Docker, Kubernetes, CI/CD (Jenkins, GitHub Actions)
- **Tools & Methodologies:** Git, GitHub, GitLab, Postman, Swagger, JIRA, Agile (Scrum & Kanban), System Design, Load Balancing, Redis, Elasticsearch

## WORK EXPERIENCE

**Graduate Assistant | Python Support Engineer | University of Southern Mississippi** **Jan 2024 - Present**

- Resolved 15+ weekly technical issues by writing and debugging efficient Python scripts, improving system reliability and reducing student downtime by 30% in a high-demand academic lab.
- Mentored 10+ students in Python fundamentals and automation techniques, fostering a collaborative, skill-enhancing environment to support academic success.
- Managed lab infrastructure, resolving 20+ hardware/software malfunctions each week and upholding a 99.9% uptime for academic tools; personally answered 5+ student questions daily.

**Full Stack Python Developer | Mainavi Global Solutions | Remote | India** **Jun 2021 – May 2023**

- 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 everything with Docker on AWS EC2, making sure it could handle real-world traffic and scale as the company grew.
- 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.

## PROJECTS

**Python-based student performance prediction system** **Jan 2024 – May 2024**

- Designed a student performance prediction tool using Python and Streamlit, enabling real-time analysis of student data, resulting in a 20% reduction in failing grades for students who used targeted interventions.

**Task Management Web Application | Full Stack Python Developer** **Jul 2022 – May 2023**

- 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.

## CERTIFICATIONS

- Python Proficiency Certification – FreeCodeCamp.
- Certified in Full Stack Development – Oracle Academy.
- Database Programming with SQL Certification – IIT Bombay.