

# Rohith Reddy Damerla

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## EDUCATION

**The University of Texas at Dallas**

**Aug' 2022 - May 2024**

*Master of Science, Information Technology & Management*

## TECHNICAL SKILLS

*Programming Languages:* C, Python, Java

*Scripting Languages:* JavaScript, HTML, CSS, Shell Script

*Frameworks:* Django, Flask, React.js, Angular, Flutter (Dart).

*Databases:* MongoDB, MySQL, PostgreSQL, Snowflake.

*API's:* RESTful APIs.

*Tools:* Tableau, Postman, Splunk, Jira, Service now, Postman.

*Cloud & DevOps:* AWS (ECS, Lambda, CloudWatch, IAM, RDS, S3), Kubernetes, Docker, Jenkins, Git.

## CERTIFICATIONS

- AWS Cloud Practitioner
- Artificial Intelligence for Everyone

## PROFESSIONAL EXPERIENCE

**Eforce Systems - Software Engineer Intern**

**Aug' 2023 – May 2024**

**Project Details:** The project involves developing a distributed customer data management system to streamline and optimize an organization's handling of customer information. The system is designed to focus on performance, data integrity, and scalability, leveraging modern software development practices and cloud-based infrastructure.

**Tech Stack:** Python, Django, MySQL, AWS, Git.

- Developed a distributed customer data management system using Agile SDLC with microservices deployed on AWS ECS, featuring NLB/ALB, EKS, EC2, API gateways, Docker and lambdas for efficient routing and performance, resulting in a 35% improvement in system responsiveness.
- Integrated Aurora MySQL for optimized query handling, ensuring data integrity and improving communication efficiency within the microservices architecture by 40%.
- Designed microservices in Python for managing CRUD operations and customer authentication and authorization, supporting at least TK TPS, which increased system scalability by 50% and reduced maintenance efforts by 25%.
- Implemented monitoring and logging with AWS CloudWatch, enhancing system performance and reliability by 30%.

**Incentives Software Private Limited, Software Engineer**

**May 2020 – July 2022**

**Project Details:** Developed and implemented a data delivery system for a niche insurance provider, streamlining data integration with analytics and reporting platforms. Improved data processing efficiency by 30% and Reduced data access time from 24 hours to 6 hours. Enhanced data accessibility for critical business decisions.

**Tech Stack:** Python, PostgreSQL, PySpark, AWS, Git, JIRA.

- **Requirement Gathering:** Conducted comprehensive requirement gathering, analysis, design, implementation, and testing phases using Agile methodology.
- **Data Handling:** Designed PySpark Data Frames for client data management, developed Python APIs for debugging, tested and validated APIs using Postman to ensure robust functionality, and integrated APIs with Tableau for dynamic data visualization and real-time analytics dashboards.
- **Database Development:** Built and optimized PostgreSQL models on AWS, wrote complex queries and stored procedures, and developed Python scripts for data management and backups.
- **Collaboration & Tools:** Leveraged Git for version control and JIRA for issue tracking within an Agile framework.

**Project Details:** Developed a seamless and secure preorder system for The Electric Cycle Company, ensuring an optimal user experience and reliable transaction processing. Worked as part of a team to create a comprehensive solution from front-end to back-end.

**Tech Stack:** React.js, HTML, CSS, JavaScript, Python, Django, MySQL, AWS, Git.

- **Front End:** Developed a dynamic and responsive preorder system using React.js, HTML, CSS, and JavaScript.
- **Back End:** Built robust backend functionalities with Python and Django, managing customer accounts and orders. Integrated secure payments via RESTful APIs. Utilized AWS RDS, Lambda, and MySQL databases for scalability and data flexibility.
- **APIs & Security:** Created secure RESTful APIs for data transfer, handling up to 500 TPS. Ensured payment data protection with secure coding practices and AWS IAM for role-based access control. Used Postman for API testing to validate and ensure the reliability of endpoints.
- **Collaboration & Deployment:** Worked with UX/UI designers for user-friendly features. Used AWS CloudFront and WAF for content delivery and security. Employed Agile methodologies for phase-wise delivery. Managed CI/CD pipelines with Jenkins and Git for source code management and automated testing.

## ACADEMIC PROJECTS

**Jan' 2023 – May 2023**

*Mentorship Program*

**Tech Stack:** JavaScript, Angular, HTML, Git

- Collaborated extensively with cross-functional teams to gather requirements and architect solutions, achieving a 25% increase in development efficiency for a JavaScript-based portfolio website for a non-profit organization. Implemented robust error-handling strategies and logging mechanisms, enhancing system reliability by 15%.
- Showcased a strong commitment to continuous professional development by staying current with the latest advancements in Angular, JavaScript, and HTML technologies. This proficiency resulted in a 25% improvement in the website's functionality.

## PROFESSIONAL AFFILIATIONS

- UT Dallas I/A/ISACA/ISC2|Python Student Chapter