

# Manoj Saddanapu

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## Summary

Full Stack Software Engineer with 2+ years of experience in Python, Java, Go, and JavaScript. Proven track record in developing and optimizing backend and frontend solutions, improving system performance and user engagement. Skilled in Docker, Kubernetes, and agile methodologies, with strong problem-solving abilities and expertise in DB management.

## Education

### Central Michigan University

Master of Information Systems

Mt Pleasant, MI

Aug 2022 - May 2024

*Relevant coursework:* Python Programming(Application Development), Database Management Systems, Business Data Analytics, System Analysis and Design

### Jawaharlal Nehru Technological University

Bachelor of Computer Science

Hyderabad, India

Aug 2016 - May 2020

*Relevant coursework:* Object Oriented Programming, Data Structures and Algorithms, Java Programming Language, Database Management, Data Mining, Probability and Statistics.

## Experience

### Clarke Historical Library

Website Manager

Mt Pleasant, MI

Oct 2022 - May 2024

- Automated digitization processes, reducing manual effort by 50% and increasing speed by 30%.
- Enhanced website to boost user engagement by 20% and reduce bounce rate by 15%.
- Improved website performance by 40% through user behavior analysis and ensured accessibility compliance, increasing satisfaction by 25%.

### Capgemini Technology

Analyst / Software Engineer

Mumbai, India

Jun 2020 - Aug 2022

- Developed and optimized backend solutions using Python and Go, increasing data processing efficiency by 30% with improved SQL queries and automated validation scripts.
- Engineered middleware components using Java and Go, significantly enhancing communication between front-end and back-end systems and boosting overall application performance.
- Designed and implemented web interfaces with JavaScript, AngularJS, HTML, and CSS, leading to a 25% increase in user engagement through improved user experience.
- Implemented container-based deployments with Docker and Kubernetes, reducing deployment time by 40% and improving system reliability. Integrated Jenkins, JIRA, and Elasticsearch on AWS for seamless CI/CD.
- Participated in agile ceremonies, conducted code reviews, and provided exceptional customer support, achieving a 95% satisfaction rating while utilizing project management tools for enhanced project organization and communication

## Skills

**Languages:** Python, Java, Go, C/C++, R, JavaScript, TypeScript, React.js, HTML, CSS

**Databases:** SQL, MySQL, T-SQL, Postgresql

**Visualization:** Tableau, Power BI, Google Analytics

**Tools & Technologies:** SDLC, Linux, Docker, Jira, Kubernetes, AWS (S3, EC2, Lambda), Apache Hadoop, Spark, MS Teams, RESTful API, Unit Testing, Git, GitHub, SQL Server Development, Slack, Postman, Visual Studio

## Certifications

- Amazon Web Services Fundamentals (Coursera)
- Certified in Python, Java and MySQL (HackerRank)
- Lean Six Sigma Green Belt Certification (Central Michigan University).

## Academic Projects

### Health Harbor (Hospital Management System):

Jan 2024 - May 2024

- Secured patient data with advanced encryption, ensuring compliance and enhancing trust.
- Optimized database schema, improving query performance by 30% and speeding up record retrieval.
- Streamlined appointment management by designing features with a multidisciplinary team, enhancing healthcare service efficiency.

### Content Based Image Retrieval using Image Clustering and Color Descriptor:

Jan 2020 - May 2020

- Deployed system on cloud, improving scalability, accessibility, and reducing costs by 20%.
- Used K-Means, DBSCAN, and advanced feature extraction, improving image search accuracy.
- Achieved 95% accuracy in image categorization through comprehensive testing.