

Manish Reddy

Open to Relocation

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Experience

DevOps Engineer Intern

May 2024 – September 2024

VelocityOne Group

Mission Viejo, CA

- Packaged applications using Docker to maintain consistent environments across development and production. This significantly boosted operational reliability and minimizing deployment discrepancies, providing a better experience for clients.
- Built and maintained CI/CD pipelines with Jenkins to automate application deployment process, reducing manual errors and improving application deployment efficiency.
- Configured and monitored network infrastructure and developed automations scripts in Python and Bash to manage AWS cloud resources (EC2, S3), resulting in a 10% improvement in uptime and a 30% reduction in deployment time.

Software Engineer

October 2020 – November 2022

IAEC Consultants Pvt Ltd

Hyderabad, TS

- Led full-stack development of IAEC Consultants Pvt Ltd.'s website with HTML5, CSS3, JavaScript, and Node.js, resulting in a 30% increase in website traffic and establish stronger online presence.
- Managed development of a scalable backend system for user onboarding using Spring Boot and MongoDB, reducing onboarding time by 40% and enabling the company to attract more clients.
- Enhanced user interaction by building responsive interfaces with React.js. Launched the system to production using Docker for containerization, and automated deployments via CI/CD pipelines for faster release cycles.

Software Engineer Intern

May 2020 – September 2020

Electronics Corporation of India Limited

Hyderabad, TS

- Constructed and fine-tuned a predictive algorithm based on Random Forest to forecast flight delays with an accuracy rate of 85%, resulting in a significant reduction in passenger inconvenience and operational costs.
- Prototyped algorithms such as K-means clustering and Support Vector Machines to assess feasibility and potential impact. This demonstrated agility and adaptability in exploring new solutions.
- Designed and expanded machine learning applications for optimizing decision-making processes, utilizing containerization with Docker to manage consistent environments and streamlined deployment.

Academic Projects

Predicting Flight Delays with Error Calculation | Python, Django, XGBoost, Random Forest, AWS S3, Pandas

- Engineered and implemented machine learning models (Random Forest, XGBoost) to forecast flight delays, leveraging real-time data processing, improving accuracy by 10%.
- Integrated AWS services and developed a robust backend operated with Python and Django to boost performance, efficiently manage large datasets, and ensure real-time data ingestion.

Simulation of Spiltwise | React.js, MySQL, Node.js, MongoDB, Kafka, AWS EC2, Redux

- Built a prototype of a Spiltwise-like website enabling users' interactions and communities' discussions.
- Deployed application on a scalable 4-node AWS cluster, leveraging microservice architecture and integrating MySQL and MongoDB for data management and Kafka for real-time updates.

Alert System for Drivers by Traffic Sign Board Recognition | Python, TensorFlow, Keras, OpenCV, AWS EC2

- Created a Convolutional Neural Network based traffic sign recognition system with high accuracy on GTSRB dataset.
- Launched model on AWS EC2 for real-time driver alerts, enhancing driver safety.

Technical Skills

Programming Languages:	Python, C, C++, Java, JavaScript, TypeScript, SQL, HTML, CSS
Frameworks & Libraries:	React.js, Redux, Vue.js, AngularJS, Spring Boot, Django, Node.js, OpenCV, Scikit-learn, TensorFlow
Databases and APIs:	MySQL, PostgreSQL, MongoDB, RESTful APIs, GraphQL
Cloud Technologies:	AWS EC2, ECS, EKS, S3, RDS, Azure, Cloud Security Standards, Ansible
Tools:	Git, GitHub, Docker, Kubernetes, Jenkins, CI/CD, Linux, Terraform, Agile, Scrum

Certifications & Publications

- **AWS Certified Solutions Architect – Associate (View Certificate)**
- Published a paper- "Predicting Flight delays with Error Calculation using Machine Learning in YMER Scopus Active Journal, Volume 21, issue 05, May-2022. ISSN-0044-0477

Education

California State University Fullerton

Fullerton, CA

Master of Science in Computer Science (GPA – 3.83/4.0)

January 2023 – December 2024

Coursework – Advanced Database Management, Web Back-End Engineering, System and Software Standards, Advanced Blockchain Technologies, Cyber Forensics