MANISH REDDY

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SUMMARY

Result-oriented Software Engineer with 3+ years of experience in optimizing applications for performance and scalability across various sectors, and skilled in cloud technologies. With expertise in Angular, React, Spring Boot, and AWS. Contributed to a payment processing system handling transactions for 450+ clients in 6 months. Beyond coding, I'm your go-to team player, who brings a positive attitude and a problem-solving mindset to every project, fostering a productive work environment.

PROFESSIONAL EXPERIENCE

Software Engineer , VelocityOne Group | Irvine, CA   May 2024 - Present
- Migrated the platform from a modular monolithic architecture to a Spring Boot microservices solution, enhancing responsiveness, user experience, and platform performance by 20%.
- Developed RESTful APIs using Spring Boot and Hibernate ORM, with a responsive Angular frontend and PostgreSQL for efficient relational data handling. Containerized applications using Docker for consistent environments across development and production.
- Build and maintained CI/CD pipelines in Jenkins for seamless software releases. Automated AWS resource provisioning and management using Terraform and AWS SDK for Java, improving uptime by 15% and reducing deployment time.

Software Engineer, IAEC Consultants Pvt Ltd | Hyderabad, India   October 2020 - November 2022
- Worked on a scalable payment processing system enabling domestic and international transactions by integrating Stripe API with C# and ASP.NET Core, using Entity Framework Core and SQL Server for transactional integrity and secure fund transfers.
- Optimized real-time payment processing with Kafka for event-driven transaction tracking and Redis for caching, reducing payment failures by 25% and implemented tokenization and AES encryption for secure data handling.
- Deployed and containerized FinTech payment system using Kubernetes, ensuring scalability and reliability in production with pipelines managed through GitHub Actions, improving deployment efficiency by 10%.

Software Engineer Intern, Electronics Corporation of India Limited | Hyderabad, India   May 2020 - September 2020
- 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.
- Explored and tested various machine learning algorithms such as K-means clustering and Support Vector Machines to identify potential improvements in operational efficiency and data analysis.
- Developed machine learning applications for optimizing decision-making processes, gaining hands-on experience with cloud technologies, and other tools to improve configuration and testing workflows.

PROJECTS

Multi-Tier Web App Deployment using Kubernetes | *Java, Spring MVC, Tomcat, Maven, Amazon EBS*
- Built and deployed a Java-based multi-tier web application using Docker and Kubernetes, ensuring high availability, scalability, and fault tolerance with persistent storage on Amazon EBS.
- Integrated MySQL, RabbitMQ, Memcached, and ElasticSearch, managed deployments using Kubernetes objects (Deployments, Services, PVCs), and optimized traffic flow with an Ingress controller.

Alert System for Drivers by Traffic Sign Recognition | *Python, Keras, TensorFlow, OpenCV, gTTS, Pandas*
- Developed a sign recognition system using Convolutional Neural Network trained on the GTSRB dataset to classify 43 traffic sign categories. The system captures an image, preprocesses it and performs real-time classification.
- It uses grayscale conversion, resizing, normalization and upon recognition it generates an audio output via text-to-speech synthesis.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, C#, Go, TypeScript, C++, HTML, CSS

Database: PostgreSQL, MongoDB, MySQL, Redis

Libraries/Frameworks: Angular, React.js, Spring Boot, Node.js, Django, FastAPI, Keras, OpenCV, TensorFlow

Cloud Technologies: Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform(GCP), Docker, Kubernetes, Terraform

Tools & Development Practices: Git, GitHub, Jenkins, CI/CD, Linux, Terraform, JIRA, Agile, Scrum, Postman, Ansible, Code Reviews

CERTIFICATIONS AND PUBLICATIONS

- **AWS Certified Solutions Architect Associate (View Certificate)**
- **Published a Research 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

Masters in Computer Science - California State University Fullerton | 3.85/4.0   January 2023 - December 2024
Relevant Coursework: Advanced Database Management, Web Back-End Engineering, DataStructures and Algorithms, Advanced Blockchain Technologies, Cyber Forensics