Manav Goel

Senior Software Engineer

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EXPERIENCE

Software Developer   Jun '22 — Present
Paytm   Bengaluru, India

- **Developed** a comprehensive microservice with RESTful APIs, **enhanced** data-sharing capabilities and optimized decision-making processes, now supporting 20k daily active users.
- **Integrated Azure Speech SDK** into an AI-driven service, implementing ASR and STT capabilities for real-time audio processing, enhancing voice recognition accuracy by 35%.
- **Spearheaded** collaboration with other teams to integrate a new backend system; achieved a 40% decrease in integration issues through communication and leveraging historical data.
- **Integrated** an optimized **SQL database** with connection pooling, ensuring efficient connection management and seamless support for concurrent user sessions.
- **Designed** a scalable provider pattern architecture allowing seamless integration of multiple speech processing vendors without significant code refactoring, decreasing future integration time by 50%.
- **Conducted Test-Driven Development (TDD)** and authored comprehensive unit test cases throughout the development process, resulting in a 15% decrease in post-release defects and 25% faster QA cycles.
- **Incorporated** Docker for containerization, achieving a 30% reduction in resource consumption, and improving performance and scalability of applications in production with 20% faster deployment times
- **Architected** and **implemented** a robust CI/CD pipeline using Jenkins, automating the build processes, **authored** Argo CD for EKS deployments, reducing intervention by 45% and deployment time by 65%.
- **Leveraged** Grafana and the ELK Stack for comprehensive monitoring and logging, Formulated detailed dashboards, decreasing bug tracking and resolution time by 50%.

Software Development Intern   Jan '22 — Jun '22
Paytm   Bengaluru, India

- Vigi lantly adopted software engineering process improvements and best practices, while adhering to the company's coding style guide to ensure clean and consistent code.
- Researched and prepared a 10-page report summarizing findings and recommended fixes from the design study of 3 production applications and presented analysis to key stakeholders.
- Developed an automated reporting generation system, reducing manual errors by 80%.
- Overhauled and revamped the obsolete legacy source code of 2 production applications, resulting in increased usability reduced latency by 50% and security vulnerabilities by 25%.

EDUCATION

Bachelor of Technology in Computer Science, Chitkara University   2018 — 2022

- Mastered the theoretical and practical application of engineering principles. Created diverse projects across multiple domains, showcasing technical prowess, and a solid desire for innovation and learning. Engaged as an active member of both the Association for Computing Machinery (ACM) and the IEEE Computer Society, fostering valuable connections within the tech community.

PROJECTS

E Banking Project

- Engineered a full-stack E-Banking application with a MySQL database, leveraging HTML, JavaScript, and CSS for an interactive front-end experience, and PHP for secure back-end processing.
- Crafted critical financial features including fund transfers, withdrawals, and deposits, incorporating OTP authentication for each transaction to maximize security.

Hangman Game

- Designed an engaging Hangman game with a graphical user interface using the Pygame library in Python.
- Introduced robust game logic allowing players to guess words by suggesting letters, with up to six incorrect guesses, ensuring a challenging and captivating user experience.

SKILLS

Programming Languages   Java, Python, Golang
Databases   MySQL, PostgreSQL, MongoDB, Cassandra, Redis
Web Development   Node.JS, Django, JavaScript
Messaging Technologies   Kafka, RabbitMQ
DevOps Tools   CI/CD, Kubernetes, Azure