

Manmohan Boyina

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EDUCATION

MS in Computer Science

Indiana University, Bloomington, IN

Expected May 2025

Bachelor of Technology in Computer Science

Koneru Lakshmaiah University, Vijayawada, India

June 2016 – May 2020

TECHNICAL SKILLS

Programming, Scripting Languages & Libraries: C#, Java, Python, SQL, HTML, CSS, JavaScript

Frameworks & Tools: ReactJS, React-Redux, React Native, Node.js, Spring Web MVC, Spring Boot Express.js, Docker, Kubernetes, MongoDB, POSTGRE SQL, Mongoose, GIT, GitHub, Gitlab, JIRA, Elasticsearch, Microservice

DevOps: AWS- S3/EC2/SQS/IAM, GCP, AWS(SaaS)

Others: Scrum, and Agile Methodologies, RESTFUL API, GraphQL API, AJAX, OOPS concepts, Project Planning, MVP Creation, Task Management, Data Structures and Algorithms, System Design, Micro Frontend infrastructure, Software Development, Debugging

PROFESSIONAL EXPERIENCE

Verizon Data Services: *Software Engineer*

August 2020 – July 2023

- Led the design, development, and maintenance of 5 critical systems, resulting in the seamless deployment of over 30 features and a 20% improvement in system stability.
- Architected and implemented a microservices-based vendor management portal, using Spring Boot to reduce onboarding time from 90 to 15 days, boosting efficiency by 83%.
- Developed and deployed REST APIs with Spring Web MVC, Spring Boot, and Java 11, reducing API response times by 25% and improving database scalability by 20%.
- Applied Agile methodologies to create detailed work plans, leading to the development and testing of over 50 features, resulting in a 15% improvement in project delivery time.
- Streamlined deployment using Docker and Kubernetes with CI/CD pipelines on GCP, cutting deployment time by 40% and enhancing application scalability and availability.

Smart Bridge: *Software Engineer Intern*

May 2018 – December 2018

- Developed a robust facial recognition system in Python using Eigenfaces, Fisherfaces, and LBPH, achieving 95% accuracy and enhancing real-time authentication processes.
- Increased facial recognition processing speed by 30% through optimized algorithm selection and Python code refactoring, enabling real-time image analysis for security systems.
- Architected advanced Python code leveraging OpenCV and machine learning models, achieving 80% recognition accuracy from multiple angles, improving security system reliability.
- Implemented a facial recognition system for traffic monitoring using Python and OpenCV, improving driver safety for 100,000 daily commuters by enhancing enforcement systems.

PROJECTS

- **Event Management System | Javascript, Node.js, MongoDB, API:** Led the design and development of a scalable ticket reservation system using Node.js and MongoDB, improving performance by 25% and enhancing user experience. Developed efficient data storage and retrieval solutions, streamlining backend processes and boosting project efficiency and user satisfaction. Designed and implemented optimized API routes for real-time venue and activity information retrieval, increasing system speed by 30%.

Repo URL: github.com/ManmohanBoyina/Event-Management-System-BackEnd

- **Master-Chef | React Native, Node.js, MongoDB, API:** Developed a recipe app enabling users to search for and add their own recipes, improving user engagement through efficient backend services and a responsive interface. Implemented user authentication, search functionality, and recipe storage using MongoDB, ensuring scalability and seamless data management. Created the frontend with React Native for cross-platform support, optimizing the app for performance on both iOS and Android devices.

Repo URL: github.com/ManmohanBoyina/Master-Chef

CERTIFICATIONS

- Pega Certified System Architect
- Pega Certified Senior System Architect

ACHIEVEMENTS

- Developed an innovative "When Rule Dashboard" during a hackathon, which enhanced rule-based decision-making processes, securing first place for innovative solutions.
- Awarded Best Employee twice for designing and implementing an advanced offer validation system, improving approval rates by 40% and enhancing revenue protection.