

# 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

August 2016 – October 2020

## TECHNICAL SKILLS

**Programming, Scripting Languages & Libraries:** C++, Java, Python, SQL, HTML, CSS, JavaScript, Typescript

**Frameworks & Tools:** Angular, NGRX, ReactJS, React-Redux, NodeJS, Express.js, Docker, Kubernetes, MongoDB, POSTGRE SQL, Mongoose, GIT, JIRA, Springboot, Elasticsearch, Microservices, Selenium, Jest

**DevOps:** AWS- S3/EC2/SQS/IAM, GCP

**Others:** Scrum, and Agile Methodologies, RESTFUL APIs, AJAX, OOPS concepts, Project Planning, MVP Creation, Task Management, Data Structures and Algorithms, System Design

## PROFESSIONAL EXPERIENCE

### Verizon Data Services: *Software Engineer*

August 2020 – July 2023

- Contributed to the design, development, and maintenance of 5 critical systems, ensuring seamless integration and smooth deployment of over 30 features and enhancements, ultimately improving overall system reliability and performance.
- Engineered a Microservices-based vendor management portal, significantly reducing onboarding time from 90 days to 15 days for a major client transitioning from mainframe systems to Spring Boot applications, thereby increasing operational efficiency by 83%.
- Created and deployed REST APIs using Spring Web MVC, Spring Boot, Java 11, and SQL, optimizing API calls and enhancing database design, which resulted in a 25% performance improvement for existing applications and better scalability.
- Utilized Agile processes to create detailed and efficient work plans, successfully developing and unit testing over 50 feature stories and user stories, contributing to the timely delivery of project milestones and improving team collaboration.
- Applied advanced containerization techniques such as Docker and Kubernetes, effectively deploying solutions using CI/CD pipelines through GCP, achieving a 40% reduction in deployment time and ensuring high availability and scalability of applications.

### Smart Bridge: *Software Engineer Intern*

May 2018 – December 2018

- Built a resilient facial recognition system in Python, utilizing advanced machine learning techniques like Eigenfaces, Fisherfaces, and Local Binary Patterns Histograms, achieving an accuracy rate of 95% in identifying and authenticating individuals with diverse facial features.
- Boosted the processing speed of the facial recognition system by 30% via algorithm optimization and code refactoring, facilitating real-time analysis and empowering the system to process up to 1,000 images per hour in different scenarios.
- Architected advanced code that achieved an impressive 80% accuracy in individual recognition from diverse angles, enhancing security and access control applications with cutting-edge technology.
- Developed a robust facial recognition system for the project that streamlined traffic monitoring and enforcement processes; directly contributed to a safer driving environment for over 100,000 daily commuters in the region.

## PROJECTS

- Event Management System | Node.js, MongoDB, API:** Directed the creation of a seamless ticket reservation system and backend development for an Event Management System, boosting performance by 25%. Leveraged Node.js and MongoDB for efficient data storage, retrieval, and overall project efficiency and user experience. Constructed efficient routes for prompt venue and activity information retrieval, enhancing system performance.  
**Repo URL:** [github.com/ManmohanBoyina/Event-Management-System-Backend](https://github.com/ManmohanBoyina/Event-Management-System-Backend)
- Driver Drowsiness Detection - Team Lead | OpenCV, Python, Machine Learning:** Designed a system to notify drivers of drowsiness, reducing accident risk by 40%. Utilized real-time video processing with OpenCV to analyze facial expressions and eye movements. Constructed a CNN model to predict drowsiness with 95% accuracy using extracted facial features.

## CERTIFICATIONS

- Pega Certified System Architect
- Pega Certified Senior System Architect

## ACHIEVEMENTS

- Participated in a hackathon, developed a "When Rule Dashboard," and secured first place.
- Earned Best Employee Award on two occasions by implementing a comprehensive offer validation system, increasing approval rates by 40% and directly contributing to revenue protection while fostering a supportive team environment.