

# MANMOHAN BOYINA

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## PROFESSIONAL SUMMARY

I am a software developer skilled in Java, ReactJS, and Node.js, with experience in building scalable systems and managing databases. Passionate about creating impactful applications and solving complex problems.

## EDUCATION

### MS in Computer Science

Expected May 2025

Indiana University, Bloomington, IN

### Bachelor of Technology in Computer Science

June 2016 – May 2020

Koneru Lakshmaiah University, Vijayawada, India

## TECHNICAL SKILLS

**Programming, Scripting Languages & Libraries:** Java, Python, SQL, HTML, CSS, JavaScript, TypeScript

**Frameworks & Tools:** React.js, React-Redux, React Native, Node.js, Express.js, Docker, Kubernetes, MongoDB, SQL, GitHub, Kibana, Jira

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

**Others:** Scrum and Agile Methodologies, SOAP Services, Web Design, RESTFUL API, OOPS concepts, Project Planning, Task Management, Data Structures and Algorithms, System Design, Micro Frontend infrastructure, Software Development, Debugging

## PROFESSIONAL EXPERIENCE

### Verizon Data Services: *Software Engineer II*

August 2020 – July 2023

- **Frontend Development:** Designed and developed responsive user interfaces using React.js with class and functional components, integrating React Hooks and React Router. Utilized UI libraries like Material-UI, Ant Design, and Bootstrap to deliver high-quality, reusable, and efficient web components.
- **Backend Development:** Built and maintained scalable server-side applications and RESTful APIs using Node.js and Express.js, ensuring high performance, security, and reliability.
- **Database Management:** Designed and managed MongoDB databases with expertise in schema design, indexing, and performance optimization. Utilized Mongoose for effective schema management and data handling.
- **State Management and API Integration:** Managed application state using Redux, implemented asynchronous actions with Thunk middleware, and integrated Axios for seamless data transfer between front-end and back-end systems.
- **Software Development and Collaboration** Translated customer requirements into functional software solutions, managing design, testing, and deployment. Used JavaScript, modular programming, and async techniques to build efficient applications. Utilized Docker, Kubernetes, and Kibana for scalable deployments and performance monitoring.

### 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

- **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](https://github.com/ManmohanBoyina/Master-Chef)
- **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](https://github.com/ManmohanBoyina/Event-Management-System-Backend)

## CERTIFICATIONS

- AWS Certified Developer – Associate