

# JohnMark Arumulla

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## PROFESSIONAL SUMMARY

Versatile Software Engineer experienced in designing, developing, and maintaining high-volume, low-latency responsive web applications using React.js, JavaScript, HTML, and CSS. Skilled in writing well-designed, testable, efficient code, integrating RESTful APIs, optimizing performance for high-availability, and contributing across all phases of the product development life cycle. Proven ability to ensure designs comply with specifications, produce software releases, and support continuous improvement through investigation of alternatives and technologies. Excellent analytical, problem-solving, and communication skills with aptitude to learn quickly. Eager to deliver mission-critical systems with superior performance and reliability.

## EDUCATION

**B.Tech, Computer Science and Engineering** Audisankara Institute of Technology, Gudur, Andhra Pradesh

2019 – 2023 | CGPA: 7.1/10.0

**Advanced Certificate Course in High-Performance Computing and Artificial Intelligence (HPC-AI)**

C-DAC (Centre for Development of Advanced Computing) August 2025

## PROFESSIONAL EXPERIENCE

**Front-End Developer Intern** | Datagaint IT Services Pvt. Ltd., Vijayawada July 2023 – February 2025

- Designed, developed, and maintained high-performance responsive web applications using React.js, HTML, CSS, and JavaScript, ensuring low-latency delivery and high-availability across devices.
- Wrote well-designed, testable, and efficient code, integrated RESTful APIs, and optimized workflows, reducing response times by 20% in production-like environments.
- Contributed across all phases of the development life cycle — from requirements analysis and design to implementation, testing, release preparation, and deployment support.
- Ensured designs complied with specifications through peer reviews, automated testing with Jasmine, and continuous validation, while investigating alternative technologies for architectural improvements.

## PROJECTS

**AI for Ocean Cleanup and Waste Management** | August 2025

- Designed and developed efficient ML models using Python, TensorFlow, and Scikit-learn for real-time image classification and waste detection.
- Wrote clean, testable code with optimized preprocessing pipelines (NumPy/Pandas), ensuring high performance and scalability.

**Amazon Clone Website** | October 2025

- Developed a full-stack responsive e-commerce application with clean architecture, API integration, automated testing, and release-ready components.
- Focused on low-latency interactions, high-availability features, and continuous improvement through modern JavaScript practices.

## SKILLS

**Programming Languages:** JavaScript (ES6+), Python, HTML5, CSS3

**Frameworks & Libraries:** React.js (Hooks, Components), TensorFlow, Scikit-learn, Bootstrap

**Development Practices:** RESTful APIs, Git (Version Control), Data Structures & Algorithms, Object-Oriented Programming (OOP), Unit Testing (Jasmine), Performance Optimization & Low-Latency Design, Responsive Design

**Software Lifecycle:** Full Product Development Life Cycle, Requirements & Design Compliance, Code Efficiency & Testability, Architectural Review & Technology Investigation, Continuous Improvement

**AI/ML & Data Handling:** Machine Learning, Artificial Intelligence, Data Preprocessing, NumPy, Pandas, Generative AI, Large Language Models (LLMs)

**Databases & Systems:** PostgreSQL, MySQL, High-Performance Computing (HPC), Linux Fundamentals, Cloud Systems

**Professional Skills:** Analytical Thinking, Problem-Solving, Verbal and Written Communication, Team Collaboration, Ownership of Solution Implementation

## CERTIFICATIONS

- SOAR – AI for Educators (Microsoft) – December 2025
- Meta Front-End Developer (Coursera) – July 2024
- Full Stack Web Development (Udemy) – January 2023