

# Mohammed Nihan

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Bangalore, Karnataka

## EDUCATION

### Visvesvaraya Technological University (VTU)

Bachelor of Engineering in Computer Science; SGPA: 8.0/10

Bangalore, India

Aug 2023 – May 2027

- Coursework:** Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, OOP.

## EXPERIENCE

### Infovue Solutions Inc.

Full Stack Developer Intern

Bangalore, India

Dec 2023 – Apr 2024

- Scalable Architecture:** Architected a MERN stack web application serving thousands of users, maintaining 99.9% uptime through robust error handling and modular design.
- iBox Modules & PCon:** Core member of the development team for iBox Modules & PCon; translated complex business concepts into functional Full Stack web components.
- API Optimization:** Engineered RESTful APIs and reduced server response time by 40% by implementing database indexing strategies and optimizing query logic.
- CI/CD Implementation:** Automated testing and deployment pipelines using GitHub Actions, cutting deployment time by 60% and ensuring zero-downtime releases.

## PROJECTS

### Onco-Navigator AI | React, Node.js, Python, ML Frameworks, AWS

Nov 2025 – Feb 2026

- Architected an end-to-end cancer care platform, deploying a primary ML model that achieved 94% accuracy in automated oncological anomaly detection from medical scans.
- Integrated a secondary deep learning vision model for advanced X-ray analysis, generating real-time segmentation masks and uncertainty predictions with an exceptional 97.64% accuracy and 0.8108 Dice Score.
- Engineered a secure, low-latency patient dashboard utilizing React.js and Node.js to visualize AI-generated diagnostic masks and manage sensitive health metrics seamlessly.
- Containerized the dual-model ML inference pipeline and web services using Docker, deploying on AWS to ensure scalable, high-availability diagnostic feedback.

### Full-Stack E-Commerce Engine | MERN, Redis, WebSockets, Stripe API

Jan 2024 – Present

- Built a high-performance e-commerce backend capable of handling concurrent transactions using MongoDB Transactions.
- Integrated Redis Caching to store frequently accessed product data, reducing database load by 30%.
- Utilized WebSockets to implement real-time order tracking and inventory updates, enhancing the user post-purchase experience.
- Designed a secure payment gateway integration using Stripe, ensuring PCI-DSS compliance for transaction handling.

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript (ES6+), SQL, HTML/CSS

**Frameworks:** React.js, Node.js, Express.js, Angular, Vue.js, Tailwind CSS

**Databases & Cache:** MongoDB, MySQL, PostgreSQL, Redis

**DevOps & Cloud:** Docker, AWS (EC2, S3), CI/CD (GitHub Actions), Git

**Core Concepts:** Data Structures & Algorithms (DSA), System Design, OOP, RESTful Services

## ACHIEVEMENTS & CERTIFICATIONS

**DSA Proficiency:** Solved 300+ algorithmic problems on LeetCode/GeeksforGeeks; focused on Graphs and DP.

**Certifications:** AWS Cloud Training Program (In Progress), Java Developer Internship Program (Alfido Tech), SQL & Database Assessment (LearnTube.ai).

**Open Source:** Active contributor to community-driven open source initiatives.