

# Mercy Nicholas

## Implementation Analyst | Software Engineer

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## Professional Summary

Software Engineer with experience building data-centric services, backend APIs, and database-heavy features in healthcare, focused on performance, reliability, and secure data handling. Proficient in Python, Java, JavaScript, SQL, and Oracle with strong foundations in testing, CI practices, and cloud fundamentals for deploying and monitoring services. Collaborates cross-functionally to ship user-facing tooling and BI features that reduce operational time and improve accuracy.

## Skills

- Languages – Python, Java, C, SQL, JavaScript
- Backend – FastAPI / Flask, Node.js / Express, REST APIs
- Frontend – React, Tailwind, HTML, CSS
- Database – PostgreSQL, MySQL, MongoDB
- DevOps – Git, Linux, Docker, Jenkins

## Experience

### Athenahealth, Chennai — Implementation Analyst | Jul 2025 – Present

- Built and optimized data ingestion logic integrating Oracle via SQL/PL/SQL, improving transformation accuracy and reducing processing time in production workflows.
- Shipped enhancements to internal ingestion tools with Product/UX, improving throughput and usability for implementation teams.
- Implemented secure access patterns and audit-friendly data flows supporting HIPAA-aligned analytics features.
- Tuned queries and procedures to lower latency and increase reliability for BI/reporting consumers.

### Athenahealth — Technical Project Analyst Intern | Jan 2025 – Jun 2025

- Converted 10,000+ unstructured healthcare records to structured, schema-compliant datasets for seamless ingestion and downstream analytics.
- Standardized datasets across 15+ sources, achieving 99% pipeline reliability through validation and formatting controls.
- Delivered analyses on automation tools that reduced manual effort by 40% and streamlined workflows for the implementation team.
- Built BI reports to support stakeholder decisions and monitor ingestion quality.

## Projects

### IoT-Based Forest Fire Detection System (Raspberry Pi, Python, MFCC, Autoencoder, SVM)

- Edge ML pipeline processing 1000+ sensor readings/min with on-device inference under 2 seconds to avoid cloud latency.
- MFCC-based feature extraction with anomaly detection and SVM optimization achieved 30% faster detection and 25% fewer false positives.

### Farm Friend — AI-powered Flutter App (Flutter, Python/ML, Gemini API)

- Delivered crop recommendation analytics for 500+ users; ML improvements raised yield prediction accuracy by 20% over baseline.
- Integrated chatbot via Gemini API handling 200+ daily interactions and cutting response time by 40%.

### **Meal Mania — Recipe App (React, Node/Express, MongoDB, JWT)**

- Full-stack CRUD with responsive UI and role-based access for admins and users, enabling structured content management.

### **Artistic Aura — Art Gallery (React, Node, Bootstrap, MongoDB)**

- Dynamic catalog with bookings, authentication, and responsive UI for exhibition workflows.

## **Education**

- B.E. Computer Science and Engineering, Rajalakshmi Engineering College (2021–2025)

**CGPA: 8.2**

## **Leadership**

- Event Manager, GDSC REC: 12+ technical workshops, 300+ students.
- Coordinator, DEVS Club: Led a 15-member development team in competitions and hackathons.