

# Mohammed Imran

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## Professional Summary

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Highly motivated Software Engineer with 2+ years of hands-on experience in designing, developing, and maintaining scalable, user-centric web applications and workflow-driven platforms, including low-code/no-code solutions. Adept at building modern frontend interfaces and full-stack systems to ensure performance, usability, and long-term maintainability. Expertise in frontend frameworks (React, Angular), TypeScript-driven application development, and backend API design using Node.js- and Java-based frameworks. Skilled in integrating AI-enabled features such as Retrieval-Augmented Generation (RAG), along with workflow automation, API integration, and collaborating with cross-functional teams to deliver high-quality, business-aligned software solutions.

## Core Competencies

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- **Programming Languages:** JavaScript, TypeScript, Java, Python, SQL
- **Frontend Development:** React, Angular, Redux, React Flow (xy-flow), Responsive UI Design
- **Backend Development:** Node.js, NestJS, ExpressJs, Spring Boot, Django, RESTful API Design
- **Low-Code / No-Code Platforms:** Drag-and-drop UI builders, workflow configuration, JSON-driven UI and event mapping
- **AI & Intelligent Systems:** Retrieval-Augmented Generation (RAG), semantic search, vector-based information retrieval
- **Databases:** PostgreSQL, MongoDB
- **Tools & Platforms:** Git, GitHub, Docker, AWS
- **Development Practices:** Agile/Scrum, code reviews, API integration, performance optimization

## Experience

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### Associate Software Engineer

August 2023 – Present

Pennant Technologies – Visakhapatnam, India

#### Low-Code / No-Code Platform (LCNC) Development (PennApps Studio)

- Contributed to the development of **PennApps Studio**, a low-code/no-code (LCNC) platform enabling rapid creation of enterprise applications such as CRM, LOS, and configurable business forms.
- Reduced application delivery timelines from **months to days or weeks**, enabling adoption by citizen developers, operations teams, and business users.
- Collaborated with product owners and platform architects to evolve the platform beyond basic forms into **workflow-driven and integration-heavy applications**.

#### UI Builder & Frontend Platform Engineering (Open-Source, TotalJS, Angular, React)

- Extended and customized an **open-source drag-and-drop UI builder** to support enterprise-scale application design.
- Took ownership of enhancing the builder's **JSON-based configuration output**, enabling accurate representation of complex UI layouts and properties.
- Worked closely with backend and platform teams to align UI configuration models with runtime execution requirements.

#### Workflow Automation & Visual Event–Action Orchestration

- Designed a configurable **event–action framework** that generates structured **JSON workflows** to bind UI events with backend actions such as API calls, email and SMS notifications, and database operations.
- Introduced a **visual flow-based configuration model using React Flow**, replacing form-driven setups and improving usability for complex workflows.
- Led the technical PoC and walkthrough for stakeholders; the solution was reviewed and approved by **senior leadership** and adopted as a core platform capability.

## Backend Modernization, Platform Architecture & IDE Integration

- Migrated a legacy backend from **Spring Boot to Node.js (NestJS)**, contributing to architectural decisions while improving long-term maintainability and scalability.
- Implemented secure authentication, integrated **PostgreSQL**, and developed backend APIs to process and persist **JSON-based configurations**.
- Integrated platform APIs with IDE tooling, coordinating with tooling teams to enable end-to-end application configuration.

## Automation, Productivity and Platform Acceleration

- Delivered a large-scale configuration project involving **~70 master modules**, leveraging the low-code/no-code platform to complete work traditionally requiring months in just **10 working days** with a small team.
- Identified inefficiencies in repetitive, manual configuration workflows and proactively proposed an **automation-first approach**.
- Designed and implemented an automation system with **backend services** and a **user-facing interface** to transform structured Excel inputs into **JSON configurations and SQL scripts**, supporting validation, error reporting, and controlled execution.
- Reduced setup effort from **~10 days (3–4 engineers) to under 1 hour (single engineer)**, achieving a **>90% productivity improvement**.
- Shared the solution and approach with team members to enable reuse and wider adoption across similar projects.

## Client Proof of Concepts and Enterprise Use Cases

- Built enterprise PoCs using the LCNC platform for clients including **HDFC Bank** and **GXS Bank (Singapore)**.
- Worked directly with internal stakeholders to translate client requirements into working prototypes within aggressive timelines.
- Contributions supported advanced-stage client evaluations and positioned the platform for enterprise adoption.

## Associate Software Engineer Intern

February 2023 – July 2023

Pennant Technologies – Visakhapatnam, India

- Gained hands-on experience in full-stack development using HTML, CSS, JavaScript, PostgreSQL, and Spring Boot through real project work.
- **Led a 5-member team** to design and develop a Bus Ticket Reservation System, coordinating task allocation, integration, and delivery.
- Implemented core application features including booking workflows, payment simulation, email notifications, and administrative functionality.

## Projects

### Profit Streak — AI-Powered Stock Market Analysis Platform

Personal Project | 2025 – Present

- Built an AI-powered stock market analysis platform using **Retrieval-Augmented Generation (RAG)** to deliver context-aware insights from real-time financial news.
- Implemented automated **web scraping** and ingestion pipelines with Celery to fetch, clean, **chunk**, and index articles using **vector embeddings** for **semantic search**.
- Developed scalable **backend services** with Django and a **responsive frontend** using React, Next.js, and TypeScript.

## Education

### Bachelor of Technology (B.Tech), Computer Science and Engineering

August 2020 – May 2023

Maharaj Vijayaram Gajapathi Raj College of Engineering, Vizianagaram, Andhra Pradesh

### Diploma in Computer Engineering

August 2017 – May 2020

Sankethika Polytechnic College, Visakhapatnam, Andhra Pradesh

## Personal Details

**Nationality:** Indian

**Current Location:** India

**Languages:** English, Hindi, Urdu, Telugu

**Open to relocation:** UAE / Qatar / Saudi Arabia