

# OMKAR ADHIR REGE

Software Engineer | Full Stack & Backend Specialist

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## PROFESSIONAL SUMMARY

Software Engineer with 3+ years of experience in Full Stack and Backend development. Proficient in Python (FastAPI, Flask), Node.js, and frontend technologies like React.js and Angular. Experienced in designing RESTful APIs, microservices architectures, and integrating specialized systems such as Genesys Voice Gateway. Strong background in engineering automation, large-scale data migrations (28Cr+ records), and industrial automation.

## TECHNICAL SKILLS

**Languages & Frameworks:** Python (FastAPI, Flask), Node.js, NestJS, JavaScript/TypeScript

**Frontend:** React.js, Angular, Tailwind CSS

**Architecture:** RESTful APIs, Microservices, GraphQL, WebSockets, SIP Protocols

**Databases:** Snowflake, MySQL 8+, PostgreSQL, MongoDB, SQLite

**DevOps & Tools:** Docker, GitHub, GitLab, Nginx, SonarQube

**Industrial Automation:** Siemens TIA Portal, Rockwell Studio 5000

## PROFESSIONAL EXPERIENCE

### TechLeaper Systems Pvt. Ltd.

Pune (Hybrid)

#### Full Stack Engineer

Aug 2025 – Present

- Focusing on Full Stack development using Python (FastAPI, Flask) and modern frontend frameworks to deliver scalable web solutions.

### AMCA

Pune (On-site)

#### Back End Developer

Mar 2024 – Aug 2025

- Specialized in backend systems integration and industrial automation utilizing Siemens TIA Portal and Rockwell Studio 5000.

### PILON CONNECTED SOLUTIONS PVT. LTD.

Pune (On-site)

#### PLC Programmer

Apr 2023 – Apr 2024

- Focused on core industrial automation logic and programming using Siemens TIA Portal and Rockwell Studio 5000.

## KEY PROJECTS

### IQVIA Large Data Migration (Lead Developer)

- Orchestrated the end-to-end migration of **~28 crore records** for a major healthcare client, facilitating a seamless transition between Oracle, Salesforce, and Snowflake.
- Engineered custom Python ETL processes with parallel processing to maximize throughput, minimize downtime, and ensure data consistency.
- Implemented rigorous validation frameworks to verify data accuracy across systems, achieving near-zero data loss during cutover.

### Healthcare Analytics Data Modernization (Sr. Developer)

- Architected a centralized data integration layer to consolidate disparate data sources into a scalable Snowflake Data Warehouse.
- Built secure, non-blocking REST APIs using **Python/FastAPI** to enable near real-time data ingestion for analytics dashboards.
- Developed automated monitoring and audit logging mechanisms to ensure high availability and compliance with data reliability standards.

**Genesys Voice Gateway Implementation** *(Python Integration)*

- Designed a custom middleware using Python to integrate Genesys Voice Gateway with internal business logic for robust voice flows.
- Developed intelligent automation services and **SIP-based call routing**, enhancing the platform's ability to handle high call volumes dynamically.
- Optimized payload processing and task management, significantly improving real-time system performance and scalability.

**Mechanical Valve Calculator** *(Full Stack Engineer)*

- Built an end-to-end valve sizing application using **Angular, Node.js, and PostgreSQL** to streamline complex engineering calculations.
- Implemented a precision-focused backend engine to handle fluid dynamics formulas ( $C_v$ ,  $\Delta P$ ) for both compressible and incompressible fluids.
- Designed a responsive UI with real-time validation to eliminate manual errors and ensure adherence to industry standards.

**EDUCATION**

DEGREE	INSTITUTE / BOARD	YEAR	PERCENTAGE
MCA (Master of Computer Applications)	Pune University	April 2017	71.53%
BCA (Bachelor of Computer Applications)	Pune University	April 2014	52.33%
HSC (12th)	Maharashtra State Board	March 2008	81.17%
SSC (10th)	Maharashtra State Board	Feb 2006	63.86%

**Date of Birth:** 01 Jan 2001      **Languages:** English, Marathi, Hindi