

# Dipal Achalesh Thaker

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## EDUCATION

University of Illinois Urbana Champaign - USA

MS in Information Management

August 2024 - May 2026

CGPA: 3.89/4.00

K. J. Somaiya College of Engineering (KJSCE) - India

B.Tech in Information Technology

August 2019 - July 2023

CGPA: 3.40/4.00

## SKILLS

- **Programming:** Python, Java, C++, SQL, JavaScript, TypeScript
- **Frameworks & Libraries:** React, FastAPI, Node.js, Flutter
- **Backend & Architecture:** Data Structures & Algorithms, REST APIs, Microservices, Event-Driven Systems, Object-Oriented Programming
- **Cloud & DevOps:** AWS (EC2, S3, Lambda), Docker, CI/CD, Git, SVN, Kafka
- **Databases:** PostgreSQL, MySQL, SQLite
- **Testing:** Jest, Postman, TDD
- **Development Practices:** Agile/Scrum, Version Control, API Design

## PROFESSIONAL EXPERIENCE

mHealth App (School of Information Sciences), USA | **Lead App Developer, Project Manager**

**Present**

- Led end-to-end development of a cross-platform Flutter/Dart mHealth application integrating AI-generated workout recommendations used by 100+ elderly participants
- Designed secure PHI data storage using encrypted SQLite databases adhering to HIPAA compliance standards
- Orchestrated a 5-member Agile team through sprint planning, code reviews, and version control
- Improved app engagement by 35% through accessibility-focused UI enhancements and adaptive layouts

Deloitte USI, India | **Software Developer (Cloud Engineering)**

**June 2023 - August 2024**

- Built Java-based automated data-validation pipelines processing large-scale healthcare data using SQL, improving data quality and reducing QA effort by ~30%
- Refactored SQL-based ETL workflows to optimize query performance and improve system maintainability, achieving 50% faster report generation
- Containerized backend services using Docker, implemented CI/CD pipelines enabling automated testing and deployments
- Collaborated with analytics teams to track bugs and requirements in Azure DevOps, improving cross-team iteration speed

Reliance Jio, India | **Quality Analyst Intern**

**June 2022 - October 2022**

- Authored and executed 1,000+ functional test cases improving defect detection by 35%
- Conducted UAT on live releases reducing post-production issues by 40%
- Maintained regression reports and defect tracking in Azure DevOps to support release stability

Levyne Tech, India | **Software Engineering Intern**

**March 2021 - August 2021**

- Developed Python REST APIs integrated with PostgreSQL and React UIs to support business workflows
- Optimized database queries through caching and pooling improving throughput by 25%
- Delivered documented and unit-tested endpoints in Agile sprints for production releases

## PROJECTS

Job Application Tracker - Full-Stack Web App | [GitHub Link](#)

**October 2025**

- Engineered a **modular full-stack application architecture** with 4 CRUD workflows and 6+ status transitions, enabling management of 100+ applications and improving tracking efficiency by 40%
- Developed 10+ RESTful APIs using FastAPI with JWT authentication, bcrypt hashing, and Pydantic validation to support a **secure, service-oriented backend architecture**
- Built and shipped a production-grade React + TypeScript frontend with reusable components and responsive layouts, reducing user interaction time by 30–40% and improving cross-layer data flow

Market Data Microservice | [GitHub Link](#)

**June 2025**

- Implemented a real-time stock-data microservice using FastAPI, Kafka, and PostgreSQL for event-driven data persistence
- Optimized asynchronous message handling achieving sub-500 ms latency with CI/CD validation pipelines
- Documented APIs using Swagger UI to support maintainable and reproducible builds

FMCG Sales Demand Forecasting and Optimization

**December 2024**

- Developed time-series forecasting models (ARIMA, ETS) in R achieving 95% forecast accuracy
- Processed 1M+ transactions using SQL and Pandas and visualized insights with ggplot2, reducing supply gaps by 20%

E-Clinical Portal - Healthcare information management system

**July 2023**

- Built a MySQL-backed patient scheduling and record management platform reducing scheduling conflicts by 40%
- Implemented role-based authentication to improve data security and access control
- Developed accessible mobile-first Flutter UI components and adaptive layouts, increasing engagement by 35%