

Dipal Achalesh Thaker

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EDUCATION

University of Illinois Urbana Champaign - USA

August 2024 - May 2026

MS in Information Management

CGPA: 3.89/4.00

Coursework: Data Stats Info Systems, Data Warehouse BI, Info Consulting, Data Science, Web Programming

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

August 2019 - July 2023

B.Tech in Information Technology

CGPA: 3.40/4.00

Coursework: DBMS, DSA, Info Retrieval, Cloud Computing, EDA, Object oriented software engineering, OS

SKILLS

- **Languages:** Python, Java, JavaScript, C++, SQL
- **Frameworks:** FastAPI, React.js, Node.js, Flutter
- **Databases & Cloud:** PostgreSQL, MySQL, AWS (S3, Lambda, EC2), GCP
- **DevOps & Tools:** Docker, Git, Kafka, CI/CD, Jest, Postman
- **Concepts:** OOP, REST APIs, Microservices, Event-Driven Architecture, Agile/Scrum, TDD

PROFESSIONAL EXPERIENCE

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

Present

- Directed end-to-end development of a cross-platform Flutter/Dart mHealth app integrating AI-generated workouts for 100+ elderly participants
- Architected secure PHI storage using SQLite with local encryption and HIPAA-aligned data practices
- Orchestrated a 5-member Agile team through sprint planning, code reviews, and version control
- Enhanced app engagement by 35% through adaptive layouts, accessibility features, and intuitive navigation

Deloitte USI, India | Software Developer (Cloud Engineering)

June 2023 - August 2024

- Built Java-based automated data-validation pipelines that processed large-scale healthcare portal data using SQL, reducing manual QA effort by ~30% and improving data accuracy across reporting workflows
- Refactored and modularized SQL-based ETL workflows, optimizing query performance and improving job orchestration, resulting in 50% faster report generation and more maintainable data-processing code
- Containerized internal services using Docker and implemented CI/CD pipelines configured with SVN for version control, enabling reproducible builds, automated deployments, and improved release reliability
- Collaborated with analytics teams while tracking bugs and requirements using Azure DevOps system, improving iteration speed and cross-team visibility

Reliance Jio, India | Quality Analyst Intern

June 2022 - October 2022

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

Levyne Tech, India | Software Engineering Intern

March 2021 - August 2021

- Designed Python REST APIs integrated with PostgreSQL and React UIs to manage business workflows
- Optimized query performance through caching and connection pooling, improving throughput by 25%
- Delivered documented and unit-tested endpoints in iterative Agile sprints for timely releases

ACADEMIC PROJECTS

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

October 2025

- Engineered a modular full-stack job-tracking application with 4 CRUD workflows and 6+ status transitions, enabling users to log and manage 100+ applications with a structured pipeline increasing personal tracking efficiency by 40%
- Configured 10+ RESTful API endpoints with FastAPI, implementing JWT authentication and bcrypt hashing, reducing unauthorized access attempts and improving request validation through Pydantic schemas
- Programmed the frontend using React (Vite) with TypeScript, Axios and TailwindCSS, creating a clean UI and streamlining cross-layer data flow and cut user interaction time (e.g., status updates, form inputs) by 30–40%

Market Data Microservice | [GitHub Link](#)

June 2025

- Implemented a real-time stock-data microservice leveraging FastAPI, Kafka, PostgreSQL for event persistence
- Streamlined asynchronous message handling to achieve sub-500 ms latency with CI/CD validation pipelines
- Documented endpoints using Swagger UI for maintainable, reproducible builds

FMCG Sales Demand Forecasting and Optimization

December 2024

- Developed predictive time-series models (ARIMA, ETS) in R, reaching 95% forecast accuracy for FMCG demand
- Processed 1 M+ transactions with SQL and Pandas, visualized insights via ggplot2, reducing supply gaps by 20%

E-Clinical Portal - Healthcare information management system

July 2023

- Constructed a MySQL-backed patient scheduling and record management platform, minimizing conflicts by 40%
- Introduced role-based authentication to strengthen data security and prevent unauthorized access
- Produced a cross-device, responsive interface using HTML, CSS, and JavaScript