

# SATISH GANDHI

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## WORK EXPERIENCE

### Ghost Founder LLC

Software Engineer

Dallas, TX

Aug 2023 – Present

- Built and operated Python backend services and REST APIs for device provisioning, telemetry ingestion, and system orchestration, supporting **10+** production IoT systems and handling hundreds of events per day
- Designed **SQL**-backed data pipelines and API aggregations to compute uptime, temperature, and earnings metrics consumed by internal systems and dashboards
- Collaborated with backend and hardware engineers to debug telemetry discrepancies between fluid and water temperature data, preventing incorrect system behavior in production
- Built and owned **CI/CD** pipelines using GitHub Actions and Docker, reducing deployment cycles from 4 months to 4 weeks
- Achieved **99.4%** uptime by implementing monitoring, logging, and alerting with AWS IoT and Grafana
- Delivered production systems supporting real customer deployments and contributing to a **\$5M** pre-seed raise
- Technologies: Python, Git, SQL, React, Node, Grafana, MQTT, State Machine, Docker, REST API, InfluxDB

### American Airlines

Student Researcher

Dallas, TX

Jan 2023 – May 2023

- Analyzed **10M+** records using Python and SQL to identify operational anomalies and customer satisfaction drivers, enabling data-backed prioritization for leadership decisions.
- Led a team of 3, consolidating findings into executive-ready presentations that informed customer experience prioritization and retention strategy for key stakeholders.
- Technologies: Python, SQL, PowerBI

## PROJECTS

### Remedica | AI-Powered Homeopathy Consultation Platform

- Built an AI consultation platform using React, Supabase, and Qdrant (**RAG**), indexing **10K+** knowledge entries to deliver sub-**500ms** semantic search
- Led end-to-end development from design to beta, shipping **15+** releases and improving recommendation relevance and intake completion by **~35%** through user-driven iteration
- Automated deployment and onboarding to support beta usage at **50+** users, improving release stability and accelerating feedback-driven iteration
- Technologies: React, Next.js, Supabase, Qdrant (Vector DB), RAG Pipelines, Node.js, CI/CD Automation, REST API

### Cal | Personalized AI Fitness Coach for iOS

- Shipped Cal, a personalized AI fitness coach for iOS using Swift, driving **91%** weekly user engagement in beta by optimizing onboarding and workout adherence loops
- Implemented AI-driven workout recommendations via ChatGPT API, dynamically tailoring routines to user goals, history, and fatigue signals to increase session completion rates and personalization depth
- Built a real-time workout adaptation system with Core ML that adjusts weights based on users' previous workouts, resulting in an **85%** reported improvement in exercise form and safety
- Technologies: Swift, Core ML, ChatGPT API, TestFlight

### Bloom | Depression Prediction using AI

- Developed AI-powered depression prediction tool utilizing CNN and multiple regression models for PHQ-9 assessment, achieving **92%** accuracy with a **6%** false negative rate to minimize missed at-risk case
- Built web portal and Android app for PHQ-9 scoring, hosted the trained model on Heroku and exposed a secure REST API endpoint so mobile and web clients could request predictions with low latency
- Technologies: Python, CNNs, Regression Models, Scikit-learn, Web Development, Java (Android)

## TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, Java, JavaScript, TypeScript, C
- **Frameworks & Libraries:** React, Node.js, Express, Core ML, Axios, Scikit-learn, Pandas, NumPy, PyTorch
- **Tools and Technologies:** Git, Docker, MQTT, Grafana, MySQL, InfluxDB, AWS IoT, REST APIs, Power BI, ETL
- **Platforms & Systems:** Linux, Raspberry Pi OS, TestFlight
- **Certification:** AWS Cloud Solution Architect - Associate

## EDUCATION

### The University of Texas at Dallas

Master of Science, Information Technology and Management; **GPA: 3.6/4.0**

Dallas, TX

Aug 2021 – May 2023

### University of Mumbai

Bachelor of Engineering, Computer Engineering

Mumbai, India

Aug 2017 – May 2021