

# KARAN SAVALIYA

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## EDUCATION

### Illinois Institute Of Technology

Master of Science, Computer Science

Chicago, IL

May 2025

### Pillai HOC College of Engineering and Technology, University Of Mumbai

Bachelor of Engineering, Computer Engineering

Rasayani, India

July 2023

## SKILLS

**Programming Languages:** C++, Python, JavaScript, Kotlin, Dart

**Web Technologies:** React.js, Node.js, Flask, REST APIs, WebSockets, Git

**Databases:** MongoDB, MySQL, Firebase, Elasticsearch (Real-Time Search, Distributed Analytics) .

**Cloud Technologies:** Docker, AWS, Google Cloud Platform (GCP).

**AI Technologies:** OpenAI GPT, LangChain, LangGraph.

## EXPERIENCE

### Teaching Assistant- Software Project Management

August 2024 - December 2024

- Prototyped autonomous multi-agent workflows with Python, LangChain, and LangGraph, orchestrating Project Manager, Customer, Code Writer, and Executor agents to manage project tasks and generate functional code through iterative LLM-driven communication.
- Programmed and executed scalable microservices for time series forecasting using Statsmodels, Facebook Prophet, and LSTM (TensorFlow/Keras), orchestrated via Docker and hosted on Google Cloud, enabling real-time dynamic graph generation

## PROJECT EXPERIENCE

### Repulsor - Palm based Transaction Application

April 2025

- Engineered a full-stack web application enabling palm-based transactions, reducing traditional authentication steps by 90%, using React, Flask, and a custom Python CNN model.
- Achieved 70%+ user recognition accuracy during live hackathon testing by training and integrating a palm feature vector extraction model without external datasets.
- Led a 3-member team to design, build, and deploy the solution within 24 hours, streamlining user payment experience with real-time camera-based palm detection.

### Winner - WildHacks 2024 - Funds Fly

April 2024

- Implemented an Android app enabling global fund transfers online and offline via Bluetooth, leveraging blockchain technology and a native cryptocurrency (Navi); awarded Capital One Best Financial Hack and Best Use of Starknet Technology.
- Designed and implemented a custom token protocol for secure balance tracking and transparent transactions between senders and receivers.
- Deployed and configured a blockchain network on AWS EC2 to support scalable, high-availability communication with the FundsFly application.

### Falsify - Blockchain-Based Counterfeit Product Detection Tool

July 2023

- Built a decentralized web app using Ethereum, Solidity, and Web3.js, enabling secure on-chain product validation and reducing counterfeit verification time by 40%.
- Developed smart contracts and integrated RBAC-based user/admin authentication with document verification and QR-based scanning, improving validation efficiency by 30%.

## ACHIEVEMENTS

### Patent Application

Patent Application No.: 202321027108

- Blockchain-Based Counterfeit Product Detection Tool. A web app using blockchain and Web3 tools. It uses a smart contract that checks if products are real validating through the blockchain network. Made sure the whole supply chain is clear and real, so users can easily check if a product is legit.