

Daksh Jitendrakumar Patel

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Education

National Institute of Technology, Warangal

Master of Technology in Computer Science Engineering

Expected May 2025

CGPA:7.78

Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar

Bachelor of Technology in Computer Engineering

June 2023

CGPA:8.61

Technical Skills

Programming Languages: C++, Python, Java

Web Development: HTML, CSS, JavaScript, Node.js, React.js, Express.js

Databases: SQL, MongoDB

DevOps: Ansible, GitHub Actions, Jenkins, Terraform, Kubernetes, Docker

Tools and Technologies: AWS Cloud, Nano editor, Apache Kafka

Coursework: DSA, Operating System, Machine learning, DBMS, Computer Networks

Experience

BISAG-N

Jan 2023 – April 2023

(MERN Stack Intern) 🔗

Gandhinagar

- Designed a Healthcare Management System for a Multi Specialist Hospital.
- Increased administrative efficiency and reduced member registration and **data access times** by up to **50%**.
- Enhanced patient satisfaction with **faster service delivery** and transparent billing.
- Reduced patient wait times by up to 40% through **optimized appointment booking** and queue management systems.
- Increased **prescription accuracy** by ensuring 100% traceability between doctors' prescriptions, pharmacies, and labs.
- Decreased **inventory wastage** by 30% with real-time monitoring of medicines, beds, and medical supplies.

Projects

Real-Time Stock Market Data Engineering with Apache Kafka & AWS 🔗

May 2024

Python, Apache Kafka, AWS, Glue Crawler

- **Streamed** stock market data using Kafka producers and stored it in AWS S3 for further processing.
- Used AWS Glue to **crawl** and catalog data for structured querying in Athena.
- Deployed EC2 instances to host and manage Kafka brokers for scalable **data ingestion**.
- **Processed** and **analyzed** real-time simulated financial data to optimize for efficient querying.

WeatherGuard : Encrypted Access and Weather Data Fetching Tool 🔗

May 2024

Python, MySql

- Fetched weather data, enabled password reset, and added **log management** features.
- Implemented a **secure login/signup** system with SHA-256 encryption for storing passwords and security phrases.
- **Restricted API usage** to 20 calls per 24 hours, preventing abuse and optimizing server resources.

SmartFarming: IoT-Enabled Intelligent Irrigation and Aquaculture System 🔗

April 2024

Contiki-ng, Hyperledger, Python(Flask), Nodejs, Javascript, React

- **Automated** irrigation and aquaculture control based on sensor thresholds, optimizing resource use and reducing waste.
- Developed an **edge server** to aggregate and process data from IoT sensors in real-time.
- Created a user dashboard for **real-time sensor monitoring**, actuator control, and blockchain-based data history using Hyperledger.

YouTube Downloader : One-Click YouTube Playlist and Video Downloader 🔗

July 2022

Python, Tkinter

- Improved YouTube playlist download management, allowing users to efficiently retrieve only desired videos, saving time and bandwidth.
- Implemented Classes and used lambda function to store the result of the strings value in checkboxes while having a loop

Achievements

- Gate 2023 AIR 543 out of 75680, 62 marks out of 100; and 682 Gate Score out of 1000.
- National Science Olympiad (Silver Medal) - International Rank: 1052, Zonal Rank:72 [!\[\]\(467d80e979964f7f8c752fb22248b5b7_img.jpg\)](#)
- International Maths Olympiad (Gold Medal) - International Rank: 402, Zonal Rank:37 [!\[\]\(b71552d33dbf62adf5e5199a70ee02bf_img.jpg\)](#)
- Google Cloud 30 days Challenge