

Vishwas Patel

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Summary

Master's Computer Science student at Santa Clara University building scalable backend systems and cloud-native data pipelines. Experienced in FastAPI, Python, Docker, Kafka, and SQL, delivering distributed ingestion workflows and real-time analytics dashboards.

Education

Santa Clara University

Master of Science in Computer Science

Santa Clara, CA
Sept. 2024 – June 2026

Gujarat Technological University

Bachelor of Engineering – Computer Engineering

Gandhinagar, India
July 2019 – May 2023

Technical Skills

Languages: Python, C/C++, Java, SQL, JavaScript, HTML/CSS, Bash (CLI)

Frameworks: Django, FastAPI, Flask, React, Express.js, Node.js

Developer Tools: Git, GitHub, Docker, Kafka, Google Cloud Platform (GCP), AWS (S3), Azure, Linux, VS Code, PyCharm, IntelliJ

Libraries: Pydantic, SQLAlchemy, Pandas, NumPy, Matplotlib, Peewee, OpenAI Whisper, Data Pipelines, Automation

Visualization & Analytics: Tableau, Grafana, Tableau

Databases: MySQL, PostgreSQL, AWS RDS, MongoDB

Experience

Software Solutions Specialist – Student Worker

Santa Clara University | Python, Pandas, Snowflake, Tableau, REST APIs, Data Pipelines, Automation

Santa Clara, CA
Sept. 2025 – Present

- Built a cloud-based POS data ingestion pipeline using Python and Snowflake to clean and load daily transactional datasets, enabling revenue and operational reporting through SnowSight dashboard boosting reporting efficiency and improving data accuracy by 90%.
- Developed internal FastAPI and Streamlit tools for real-time search and analysis of POS and access-control logs, reducing incident-resolution time by 40% and improving operational visibility for Auxiliary Services staff.
- Created Tableau dashboards and custom analytics reports to support meal-plan planning, pricing strategy, and event operations, delivering insights across \$20M+ in annual campus transactions.

Software Engineer

Shaip | FastAPI, Python, Docker, Google ASR, OpenAI Whisper, GCP

Ahmedabad, Gujarat
Aug. 2023 – May 2024

- Engineered RESTful APIs using FastAPI and Docker to handle audio uploads, initiate transcription jobs, track job status, and return results to clients; leveraged asyncio for concurrent request handling, reducing response latency under load.
- Designed and deployed a cloud-native, Dockerized pipeline for multilingual audio transcription by integrating Google Speech-to-Text and OpenAI Whisper. Evaluated transcription quality using WER and BLEU metrics.
- Implemented resumable audio uploads with file type and size validation using aiofiles and asynchronous background tasks, enabling non-blocking handling of large file transfers.

Data Science Intern

SkyInfo Solutions | Python, Dask, PySpark, SQLAlchemy, Apache Airflow

Ahmedabad, Gujarat
Feb. 2023 – Apr. 2023

- Built data pipelines using PySpark and Dask to process 500K+ rows of customer logs and sales data, boosting ETL throughput by 20% and saving 15 hours of processing time per week.
- Developed automated ETL pipelines in Apache Airflow for daily extraction, transformation, and loading of structured/unstructured data into analytical models.
- Extracted behavioral and transactional features from product usage data to support predictive modeling, improving model accuracy by 12%.

Projects

RedWatch: AI Powered SCO Platform

Python, Flask, React, TypeScript, PostgreSQL, OpenAI GPT-4o-mini, Docker, JWT

 [GitHub](#)

- Engineered an AI-powered SOC platform using GPT-4o-mini and Flask, identifying 8 attack patterns including C2 beaconing, SQL injection, brute force, and data exfiltration with a calibrated confidence scoring system (0.0–1.0).
- Implemented payload compaction and even-distribution log sampling to process files up to 5,000 entries, reducing OpenAI API token usage by ~55% while maintaining full detection accuracy.
- Deployed a Dockerized 3-tier cybersecurity dashboard using PostgreSQL, Flask/Gunicorn, and React/TypeScript; integrated JWT authentication and bcrypt hashing, with support for 3 log formats (ZScaler, Apache/Nginx, JSON/NDJSON) and automated PDF incident report generation.

WeHack: Hackathon Management Platform

React (TypeScript), Spring Boot, MySQL

 [GitHub](#)

- Instituted secure role-based access control RBAC using Spring Security and JWT, delineating permissions and workflows for organizers, participants, and judges; decreased unauthorized access incidents by 90%.
- Developed modular RESTful APIs to manage events, submissions, teams, and threaded comments; optimized database interactions using MySQL and tested endpoints with Postman.
- Constructed role-based React interfaces utilizing React Router to streamline event dashboards and efficient project submissions, enhancing team collaboration and improving user satisfaction ratings by 20%.