

# Vishwas Patel

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## Education

### Santa Clara University

Master's of Science in Computer Science

Santa Clara, CA

Sept. 2024 – June 2026

### Gujarat Technological University

Bachelor's 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, Express.js

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

**Libraries:** Pydantic, SQLAlchemy, pandas, NumPy, Matplotlib, Peewee, Dependency Injection

**Database Technologies:** MySQL, PostgreSQL, MongoDB

## Experience

### Software Engineer Intern

August 2023 – February 2024

*Shaip* | FastAPI, Python, Google ASR, OpenAI Whisper, Cloud Infrastructure

Ahmedabad, Gujarat

- **Achieved a 25% increase in the performance of key internal machine learning tools** by leading the design, development, and optimization of a scalable back-end using **FastAPI** for internal company use.
- **Reduced data processing time and improved system reliability** by implementing cloud infrastructure solutions and leveraging **Google ASR** and **OpenAI Whisper** for multilingual transcription.
- **Boosted transcription efficiency by 30% and enabled real-time processing for diverse languages** by automating pipelines with **Python** scripts and calculating performance metrics such as **Word Error Rate (WER)** and **BLEU** to assess and optimize the quality of transcriptions.

### Data Science Intern

Feb. 2023 – Apr. 2023

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

Ahmedabad, Gujarat

- **Improved basic data readiness for machine learning pipelines** by performing simple exploratory data analysis (EDA) on datasets with over 500,000 records, using **Python**, **Dask**, **PySpark**, and **SQLAlchemy** for initial data handling.
- **Reduced basic data preprocessing time by 15%** through setting up simple data pipelines with **Apache Airflow** for straightforward data ingestion and transformation.

## Projects

### Voice-Controlled Virtual Assistant | *Python, Speech Recognition, pyttsx3*

- **Engineered an advanced voice-controlled assistant** utilizing cutting-edge speech recognition and text-to-speech libraries, enabling **fluid voice interaction** for a more intuitive user experience.
- **Designed a scalable framework for voice-driven applications**, integrating natural language processing capabilities to support sophisticated features, accelerating innovation and contributing to the deployment of 4 new voice functionalities within six months.
- **Enhanced system performance by 30%** through optimization of voice recognition algorithms and integration with cloud-based services, improving response accuracy and reducing latency.

### Gardent Simulator | *Java, JavaFX*

- **Built an interactive Garden Simulation System in Java**, simulating real-world plant behavior with dynamic **environmental controls**, **pest management**, and live health monitoring using JavaFX.
- **Implemented modular OOP architecture** with controllers, factories, and modules for scalable growth, covering diverse plant types with individual attributes like water needs and temperature tolerance.
- **Integrated automatic systems** for watering and pest control, along with real-time logging and a day/night cycle to enhance simulation realism and user engagement.
- **Configured cross-platform build and deployment** using Maven, enabling seamless setup and execution on Windows, macOS, and Linux with robust dependency management.

## Certifications

Getting Started with Data Analytics on AWS

Coursera

Python for Everybody

Coursera

SQL for Data Science

Coursera

## Extracurricular

Event Manager, Food Fiesta 2019, Gandhinagar Institute of Technology

Event Coordinator, Textreme 2023, Gandhinagar Institute of Technology

Event Volunteer, Jazba 2019, Gandhinagar Institute of Technology