Vishwas Patel

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Education

Santa Clara University	Santa Clara, CA
Master's of Science in Computer Science	*Sept. 2024 – June 2026*
Gujarat Technological University	Gandhinagar, India
Bachelor's of Engineering - Computer Engineering	*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