

Ishan Patel

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Education

University of Central Florida (UCF) – Orlando, FL
Bachelor of Science in Computer Science, BS

December 2025

Skill

Python Programming

- Skilled in Python with a focus on machine learning algorithms, artificial intelligence, and robotic vision
- Developed and implemented programs for various concepts including CNNs, Neural Networks, Object Detections, Reinforcement Learning, and RNN

Database Management

- Proficient in SQL (MySQL) and NoSQL (MongoDB) databases, with experience in designing and optimizing data models for various applications
- Applied SQL in LAMP stack project to manage relational data, optimize queries, and implemented user-based access control for three distinct user levels (basic users, admin users, and super admins) in web applications
- Utilized MongoDB in a MERN stack project to implement a flexible, scalable data model for web and mobile applications

Java Programming

- Developed applications using OOP concepts, designing classes and interface to create scalable, maintainable code structures

Academic Projects

Weekly Schedule Comparator – Utilizing MERN Stack

- Coordinated a team to develop a web and mobile application enabling users to edit, compare, and share their weekly schedules with one another, complete with email notifications
- Implemented NoSQL database design and backend APIs, ensuring seamless integration between the front-end and back-end

Titan of Energy – AI character creation pipeline

- Collaborated with a team to design and implement an AI-powered workflow for character creation
- Researched and benchmarked multiple speech-to-text (STT) models to evaluate real-time vs. batch processing performance
- Contributed to improving pipeline efficiency and accessibility by analyzing model trade-offs and integrating findings into the system design

Image Processing Benchmarking – OpenCV & Multithreading

- Designed and implemented a benchmarking framework to compare OpenCV's multithreading with a recursive 4^N method
- Conducted structured testing on image sets of varying complexity (easy, medium, hard) to measure scalability and efficiency
- Analyzed results to produce reports summarizing runtime performance, CPU utilization, and overall trade-offs between approaches

Experiences

Siemens Energy Challenge, UCF KnightHacks Hackathon | Orlando, FL

Participant

October 2024

- Awarded 2nd place by developing an application that helps users understand energy cost savings in using solar panels based on quantity and location.
- Quickly adapted to and implemented new technologies such as Streamlit and domain hosting with no prior experience in a team environment
- Collaborated in a team environment to develop, learn and deliver a user-friendly solution within 36-hour deadline

Neeta's Eyebrow Threading | Orlando, FL

Customer Service Associate

2019 – 2023

- Assisted customers with booking appointments and answering service – related inquires via phone
- Managed and set up the Square software for online appointment booking and point-of-sales transactions

BAPS Hindu Temple | Orlando, FL

Youth Speaker / Volunteer

2018 - 2024

- Developed and delivered presentations to educate high school and college students on the Hindu values and teachings
- Mentored new presenters, providing guidance on effective presentation skills and areas for improvement