Shrimad Patel

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About

Ambitious and self-motivated computer science student with a strong interest in full-stack development, networking, and security. Passionate about leveraging technical skills to drive innovation and improve user experiences. Proven ability to thrive in dynamic environments through problem-solving, teamwork, and adaptability. Eager to contribute to organizations and communities while pursuing personal and professional growth.

Education

Ahmedabad University **Ahmedabad**
BS (Hons) in Computer Science *2022-2026*

Atmiya Vidya Mandir **Surat**
AISSCE (12th grade), CBSE *2021-2022*

Atmiya Vidya Mandir **Surat**
AISSE (10th grade), CBSE *2019-2020*

Experience

aProCh **Ahmedabad**
Volunteering-intern *Sep'23-Dec'23*
- Gained hands-on experience in event management, requiring quick thinking and problem-solving skills.
- Ensured smooth event operations by managing unforeseen circumstances and adapting to changing requirements.
- Collaborated with a team to create and edit social media reels, enhancing community engagement.

Projects

Predicting Female Condition, Egg Health, and Hatchling Survival in Galapagos Tortoises Using Bayesian Networks:
- Developed a Bayesian Network model to predict survival probabilities of Galapagos giant tortoises using environmental datasets (NDVI, temperature, elevation).
- Analyzed the impact of environmental factors on tortoise condition, egg health, and hatching survival, emphasizing the effects of climate change and the need for conservation efforts.

Amma Ka Dabba (Food Delivery Application):
- Designed and implemented backend APIs for a food delivery platform, focusing on order management, restaurant listings, and real-time status updates.
- Utilized Django REST Framework to optimize performance, ensure secure authentication, and manage user interactions efficiently.
- Gained experience in database management and API security.

Carrerwale (Career Counseling Platform):
- Developed backend APIs for a career counseling and student guidance platform using Django.
- Focused on building a robust, scalable backend with an emphasis on API performance, security, and maintainability.
- Contributed to optimizing backend architecture to enhance user experience and reliability.

Facial Recognition System:
- Built a facial recognition system using OpenCV and the EigenFace Recognizer.
- Trained the model on a dataset of images, employing Haar cascades for face detection and adjusting thresholds to improve accuracy.
- Addressed challenges related to fluctuating lighting conditions, enhancing skills in computer vision and image processing.

Network Scanner Web App:
- Developed a full-stack network scanning web app using Django and React.js, integrating Scapy and Nmap for ARP, TCP, and full network scans with real-time progress tracking and detailed device analysis.
- Designed secure RESTful APIs with JWT and OTP-based two-factor authentication, along with password strength validation and caching for MAC vendor lookups to improve performance.
- Built a responsive React frontend with components like NetworkScanner, DeviceDetails, and ScanSummary to deliver an intuitive and informative user experience.

Feedback Management System:
- Developed a Python Tkinter GUI for a feedback management system using SQLite3 as the database.
- Enabled students to provide anonymous feedback while ensuring data privacy, with a user-friendly interface for faculty to access responses.

Skills

Technical: Python, Frontend Development (HTML, CSS, JS), C, Django, MySQL/PostgreSQL, Linux, MS Office Suite, Google Workspace, Adobe Photoshop, Premiere Pro

Soft Skills: Time Management, Teamwork, Communication, Problem-solving

Certifications

Certificate Of Completion: Rajesh Patkar Institute Of Software Engineering, Proficiency in C-CPP-DS, June 2023 to August 2023

Key Achievements

- Successfully developed and deployed multiple backend systems for real-world applications, demonstrating strong technical and problem-solving skills.
- Contributed to conservation efforts by analyzing environmental data to predict the survival of Galapagos tortoises.
- Enhanced event management processes through effective teamwork and adaptability during the aProCh internship.

Interests

Full-stack development, cybersecurity, machine learning, computer vision, and environmental conservation.