CATHARINE PARMAR

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EDUCATION

California State Polytechnic University, Pomona   Aug 2022 – May 2024
Master of Science (M.S.) in Computer Science (GPA: 4.00)
Relevant Coursework: Advanced Software Engineering, Advanced Algorithm Design and Analysis, Scheduling Algorithm, Advanced Computer Architecture, Human Computer Interaction

Uka Tarsadia University, India   May 2018 – June 2022
Bachelors of Technology (B.Tech) in Computer Science (GPA: 3.46)
Relevant Coursework: Web Designing, Programming with Python, Software Engineering, Data Structures, Database Management System, Object Oriented Programming with Java

WORK EXPERIENCE

IT Student Assistant – Cal Poly, Pomona   September 2023 – Present
- Provided effective technical assistance to students, faculty, and staff on campus, resolving various hardware and software challenges. Demonstrated independence and resourcefulness to complete tasks on schedule.
- Demonstrated a keen knack for troubleshooting , swiftly addressing hardware and software challenges for students, faculty, and staff at Cal Poly, Pomona, ensuring seamless functionality and prompt resolution.
- Delivered high-quality support through clear and efficient communication of technical solutions, showcasing strong communication and organizational skills.Proactively identified and addressed potential scalability challenges within IT systems, applying analytical and problem-solving abilities to enhance overall performance.

Software Developer (Intern) - Thoucentric, India   December 2021 - June 2022
- Developed robust REST APIs and conducted thorough testing and debugging, ensuring seamless integration with external systems and reducing API response time by 50%. Played a pivotal role in testing the developed code to validate the robustness and reliability of software features.
- Developed a web application using SW libraries such as React JS and advanced machine learning techniques for accurate demand forecasting, leveraging expertise in UI development.
- Contributed to software feature development and resolved bugs, showcasing a proactive approach to technology adaptation. Adapted swiftly to evolving technologies, actively contributing to the enhancement of the tech stack.
- Designed and implemented layouts for web pages, created APIs, and integrated them with the frontend, demonstrating expertise in API testing and debugging. Collaborated cross-functionally with data science, design, and product management teams, delivering impactful user experiences.

PROJECTS

EEG-based Stress Reduction and Music Recommender System
- Conducted EEG feature extraction and stress classification following stress induction through a Stroop test, subsequently exposing individuals to calming music for stress reduction.
- Developed a generalized music recommender system based on post-music therapy outcomes, Offered personalized recommendations tailored to individual EEG patterns for effective stress management using Python.

Sentiment Analysis of Social Media Posts
- Efficiently classify social media posts into three categories: positive, negative, or neutral, offering insights into the emotional tone of online conversations.
- Evaluate the model's performance using metrics like accuracy, precision, recall, and F1-score. Cross-validation can be applied to ensure the model's robustness.

Belle
- Developed a dynamic blog site using HTML, CSS, and JavaScript.
- Ensured full responsiveness across devices for increased accessibility and engagement.

ShopSwift
- Seamlessly compatible with all Android devices for a smooth shopping experience.
- Simplifies shopping by enabling users to effortlessly select products and add them to their cart for streamlined checkout.

SKILLS

Languages – Python, HTML, CSS, JavaScript, C, C++, SQL
Framework and Tools – ReactJS, Django, NumPy, Pandas, Vue, Express, MongoDB, Bootstrap, Tailwind,NodeJs
Tools- Git& GitHub, MongoDB, Postman, Swagger, Docker, Microsoft Office, Jupyter Notebook, GanttProject, Visual Studio, Balsamic Wireframes, SQL Power Architect, pgAdmin

CERTIFICATIONS
- Using Python to Access Web Data
- Programming for Everybody (Python)
- Python Data Structures