

SHIVAM RAVAL

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EDUCATION

Master of Science in Computer Science

University of Massachusetts, Lowell

Jan 2021 – Aug 2023 (Expected)

Bachelor of Engineering in Computer Engineering

Gujarat Technological University

Aug 2017- Jun 2021

SKILLS

Programming Languages: Python, JavaScript, HTML5, CSS3

Tools and Technology: VS Code, GIT, PyCharm, Jupyter Notebook, FLASK

Domain: Front-End development, Data Structures & Algorithms, Data Science.

OS: MacOS, Windows, Linux

Designing Tools: Adobe: Photoshop, Illustrator, After Effects; Blender

EXPERIENCE

Graduate Assistant

May 2022- Present

Graduate Online and Professional Studies (GPS)- University of Massachusetts, Lowell

- Collaborated with cross-functional teams to design and develop a student portal for program applications, implementing JavaScript code for calculated fields and process connectivity to enhance user experience.
- Facilitated the portal migration to ABL's server with minimal downtime, ensuring uninterrupted service for students and faculty.
- Designed and implemented workflows to streamline application review, resulting in faster turnaround times and increased efficiency and provided technical support and troubleshooting assistance to professors during the application review process.
- Collaborated with the recruitment team to create successful configurations for improved portal effectiveness, leveraging JavaScript expertise to contribute to academic growth and success.
- Built configurations for various programs in the Graduate School using JavaScript, demonstrating proficiency in the programming language.

Junior Web Developer

Jan 2020- Apr 2020

Digileap Media

- Leveraged technical skills in JavaScript, HTML5, and CSS3 to contribute to multiple successful web design projects, collaborating with the team to design and develop websites and applications according to clients' requirements.
- Applied proficiency in tools such as VS Code, GIT, PyCharm, Jupyter Notebook, and FLASK to support the team in testing and maintaining both backend and front-end applications to ensure their functionality and user-friendliness.
- Collaborated with developers to implement new web features and provide creative ideas, leveraging technical expertise to improve the user experience.
- Analyzed user feedback and behavior to update websites and improve usability, showcasing strong communication skills and effective collaboration with cross-functional teams in the domain of front-end development.

Graphic Designer

Nov 2019- Jan 2020

Markinfinitly

- Utilized Adobe Photoshop, Illustrator, and After Effects, as well as Blender, to create visually stunning designs that met clients' needs and exceeded their expectations.
- Demonstrated a strong ability to understand client needs and develop effective design strategies to deliver high-quality solutions.

CURRICULUM PROJECTS

Brain Tumor Prediction

Jan 2022- May 2022

- Developed a convolutional neural network (CNN)-based approach to accurately predict brain tumors from MRI scans with a high accuracy of 96.3%.
- The proposed architecture demonstrates expertise in deep learning techniques, large dataset handling, and model development and evaluation. The model's potential to assist radiologists in the accurate diagnosis of brain tumors highlights a commitment to improving patient outcomes and reducing diagnostic errors.

Cinema E-Booking

Aug 2022- Dec 2022

- Developed a functional website from scratch for a movie theatre reservation system.
- Utilized expertise in back-end development, database storage systems and dynamic webpages to create seamless user experience.
- Successfully implemented the website on a local server, demonstrating strong technical skills and attention to detail.

Object Detection

Jan 2022- May 2022

- Demonstrated expertise in Machine Learning by implementing the Mask R-CNN algorithm for object detection on a custom dataset.
- Conducted extensive testing and analysis to optimize model performance and achieved high precision and recall rates.
- Documented the entire process with detailed explanations of algorithms and techniques used and proved ability to work with a complex algorithms and datasets to produce high-quality results.