

Urvi Patel

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

Skills

Languages: JavaScript, NodeJS, React, Python, C##, HTML, CSS, R Language, Octavo

Framework: ExpressJS, ASP.NET

Database: MySQL, Sequelize, MSSQL, MongoDB, Mongoose

Development Tools: Visual Studio Code, Visual Studio, Notepad++

Other Technologies: Git, Jira

Artificial Intelligence Tools: Regression, Classification, Clustering Models, TensorFlow, Keras, NumPy, Pandas, SciKit Learn, Natural Language Processing, Data Cleaning

Experience

Jewellery Website (*Freelance Project*)

September 2024 – Present

- Developed a **full-stack jewellery web application** with a **Node.js backend** and **React frontend**, utilizing **RESTful APIs** for seamless communication between client and server.
- Implemented **CRUD operations** via RESTful APIs to manipulate jewellery data stored in **Firebase**, enabling users to view, add, update, and delete jewellery items.
- Designed and integrated a **shopping cart** and **wishlist** system that stores data in **Local Storage** using **Redux** for state management and syncs it with the backend after user authentication.
- Ensured secure user authentication and data integrity by integrating **Firebase Authentication** for managing user sessions.
- Delivered a responsive and user-friendly UI with React, optimizing for both performance and usability.

Interact Health Pro, Full-Stack Web Developer Intern

August 2023 – Present

- My role involved creation of healthcare website using **C# using ASP.NET MVC**, closely integrated with a robust **SQL Server**.
- Involved in various phases of the **Software Development Life Cycle (SDLC)** such as requirements gathering, analysis, development, system testing.
- Actively engage in problem-solving and maintain **clear communication**, ensuring supervisors are **consistently updated** and aligned with project goals.
- Implemented the **CURD operations** for managing and accessing data.
- Implemented **80% of the web application's** features, particularly focusing on enhancing client accessibility.
- Troubleshoot **defects in application** and **analyse the root cause** for the problem.
- Enhanced** the website's **user interface**, resulting in **improved accessibility** and a more **user-friendly design**.

Dazzle Robotics Pt. Ltd., Gandhinagar, India, Product Manager E-commerce

June 2019 - September 2020

- Created and managed product page content using HTML within the **WordPress platform**.
- Developed product web pages by writing **HTML** and **CSS** based on provided designs.
- Enhanced e-commerce sales by **analysing data** and implementing **digital marketing strategies**, resulting in a significant **increase in sales** during my tenure.
- Customized and shipped robotic products to customers, ensuring **quality** and **timely** delivery.
- Addressed and **resolved customer issues** related to products, providing **effective solutions** and maintaining **high customer satisfaction**.
- Oversaw the shipping process for all products and **managed inventory**, ensuring **smooth operations**.

Education

University of Waterloo, Waterloo, Ontario

January 2021 - April 2022

Master in Engineering with Artificial Intelligence and Machine Learning Specialization Under Electrical and Computer Engineering

Coursework: Data and Knowledge Modelling Analysis, Statistical Method for Data Analysis, Intelligent Systems Design, Quantitative Data Analysis for Management Science, Image Processing and Visual Communications, Project Management, Intelligent Sensors and Wireless Sensor Network

Nirma University, Institute of Technology, Gujarat, India

August 2015 - April 2019

Bachelor of Technology in Instrumentation and Control Engineering

Projects

- **E-commerce Website using NodeJS with MongoDB and Mongoose (*In Progress*)**

- Developing an e-commerce web application using Node.js and MongoDB to manage large-scale NoSQL databases, optimizing for scalability and performance.
- Leveraged Mongoose ODM to define and manage data models, implementing efficient CRUD operations for managing products, users, orders, and cart data.
- Implemented user authentication with encrypted passwords, including secure sign-up and login functionality, ensuring data security and user privacy.
- Utilized cookies to manage session data on the client side, such as tracking user login status and maintaining a personalized user experience.

- Integrated password reset functionality using Nodemailer, allowing users to securely change their passwords via email.
- Enhancing security by adding email and password validation using Express-Validator, displaying error messages during sign-up or login for better user feedback.
- Implementing CSRF tokens to protect sensitive information by restricting unauthorized access and enhancing the overall security of the application.

- **Web Application using NodeJS with MySQL and Sequelize**
 - Developed a dynamic web application using Node.js and Express.js, implementing a robust server to handle data parsing and HTTP requests efficiently.
 - Engineered the application architecture following the MVC pattern for maintainable code organization and separating concerns across models, views, and controllers.
 - Integrated a MySQL database with the application using Sequelize ORM for seamless data management, including dynamic data querying and manipulation.
 - Implemented dynamic content rendering using EJS templating engine, enabling responsive and interactive user interfaces with real-time data.
 - Optimized database interactions and ensured data integrity through Sequelize models, migrations, and validation mechanisms.
 - Conducted comprehensive testing and debugging to ensure high performance, utilizing Node.js built-in tools.

- **Time Series Analysis of Stock using ARIMA in R**
 - Time series analysis using ARIMA model to predict stock prices for next three years on the historical stock data.
 - Data pre-processing and analysing technologies employed are Tseries, Xts, Tidyverse, Forecast, Urca.
 - The predicted stock prices had confidence interval of 99%.

- **Sentimental Analysis in Python**
 - Analysed and segregated IMDB reviews in positive and negative comments with NLP (Natural language Processing) Algorithms using TensorFlow, Keras, Sklearn.
 - Implemented tokenization method for pre-processing of IMDB rating dataset to feed into Conv1D, bidirectional GRU and Conv1D with Regularization NLP models for prediction.
 - The Conv1D network with regularization algorithm achieved accuracy of 89.3, which is highest in comparison with other implemented algorithms.

Certification (More details on LinkedIn)

- NodeJS - The Complete Guide (MVC, REST APIs, GraphQL, Deno) (*In Progress*)
- Structuring Machine Learning
- Improving Deep Learning Neural Network: Hyperparameter Tuning, Regularization and Optimization
- Neural Network and Deep Learning
- Convolution Neural Network