Chetan Patwardhan
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EDUCATION

·Veermata Jijabai Technological Institute (VJTI), Mumbai
Master of Technology : Defence Technology

Pursuing : Aug 2023 - 2025
CGPA: 7.93

·H.V.P.M's College of Engineering & Technology, Amravati
Bachelor of Engineering : Computer Science & Engineering

Passed : Aug 2019- June 2023
CGPA : 8.49

TECHNICAL SKILLS AND INTEREST

Languages: Core Java, HTML 5, CSS 3, JavaScript, SQL, Bootstrap, Jquery, Python

Developer Tools: VS Code, Eclipse, Android Studio, Google Cloud Platform, Vercel, Firebase

Frameworks: Angular 8+, MERN Stack (MongoDB, Express.js, React.js, Node.js), GitHub, Spring Boot

Databases & Cloud : SQL Server, MongoDB Server, Firebase

REST API & Web API Development: Designed and implemented REST and Web APIs for CRUD Operations.

Hardware/Embedded System: - STM32 (STM32CubeIDE), Raspberry Pi Pico

EXPERIENCE

·Bharat Forge Limited
Project Intern - Research & Development Intern

July 2024 – June 2025
Pune

Project Name – Autonomous Underwater Vehicle || **LINK**

Mission Editor :
– Designed an intuitive interface to plan, create, and edit AUV missions, including payload and device management with real-time parameter customization.

Live Tracking :
– Developed a real-time tracking system for AUVs, enabling monitoring of navigation parameters like latitude, longitude, pitch, roll, and pressure with seamless data visualization.

Replay :
– Built a replay interface to analyze historical AUV data, supporting dynamic playback with time-tracking controls and generating detailed performance reports.

Microcontroller Integration :
– Programmed and integrated microcontrollers STM32 and Raspberry Pi Pico to control servo motors, sensors, and other hardware components critical to AUV functionality.

Project Name – Issue Management System || **LINK**

– Developed a web-based application for tracking, managing, and resolving product issues, with a focus on industries like autonomous underwater vehicles (AUVs).

– Designed REST APIs for user authentication, product registration, and issue tracking, ensuring secure and scalable communication between frontend and backend.

– Developed a MERN stack application hosted on GitHub Pages, with Firebase for real-time updates.

·Ei SYSTEM
Full Stack Developer intern

Dec 2023 – Feb 2024
Mumbai

Project Name – Medical Management System || **LINK**

– Designed and developed a system to manage pharmacy inventory, prescription tracking, and sales operations efficiently.

– Integrated key features like automated stock monitoring, customer prescription validation, and real-time reporting to enhance operational accuracy and efficiency.

– Ensured secure data handling by implementing user authentication and encryption for sensitive patient and pharmacy information.

· Green Zone Multi-Services Pvt. Ltd   Dec 2022 – May 2023
Project Intern - Software Engineer   *Amravati*

Project Name – Image Forgery Detection || **LINK**

– Developed an intelligent system to detect tampered or forged images using advanced algorithms and pattern analysis techniques.

– Utilized image processing methods such as error level analysis (ELA) and metadata extraction to identify inconsistencies in image integrity.

– Implemented a user-friendly interface to upload and analyze images, providing accurate and reliable forgery detection results.

Project Name – Airline Ticket Booking System || **LINK**

– Designed and implemented a comprehensive system for booking, managing, and canceling airline tickets with real-time availability updates.

– Integrated user-friendly features such as flight search, passenger details management, and payment processing to streamline the booking experience.

– Developed backend functionality for secure data storage, flight schedules, and dynamic ticket pricing using efficient database management.

· Force by Four Multi-Services Pvt. Ltd   Jan 2022 – Feb 2022
Front-end Developer Intern   *Amravati*

Project Name – Hotel Management System || **LINK**

– Assisted in the development and maintenance of user interface components for web applications, focusing on front-end technologies such as HTML, CSS, and JavaScript.

– Implemented interactive features and dynamic content using JavaScript frameworks such as React.js, Vue.js, Angular ,Bootstrap.

– Collaborated closely with designers and back-end developers to translate design mockups and requirements into responsive and user-friendly web interfaces.

PERSONAL PROJECT

Amazon Mini Clone || **LINK**
- – Designed a video streaming platform UI using HTML, CSS, and JavaScript.
- - Built features like movie/show listings, video previews, and a responsive design.
- - Implemented a search bar for content filtering and dynamic content rendering.

Airbnb - Vacation Rental Company Clone || **LINK**
- – Developed a feature-rich web application replicating core functionalities of Airbnb, including property listings, user authentication, and booking management.
- – Integrated interactive maps and search filters to enhance user experience by enabling seamless navigation and property discovery.
- – Implemented responsive design and optimized database operations to ensure smooth performance across devices and efficient handling of user data.

AI Quote Generator || **LINK**
- - Developed a web application using HTML, CSS, and JavaScript to generate inspirational quotes dynamically.
- - Integrated a machine learning model or API to create personalized quotes based on user input.
- - Enhanced user engagement with responsive design and interactive UI features.

Airline Management System || **LINK**
- – Developed a comprehensive Airline Management System to streamline flight scheduling, passenger booking, and crew management using modern web technologies
- – Implemented real-time features for flight status updates, seat availability, and ticket generation, enhancing user experience and operational efficiency.
- – Designed and optimized database structures to manage large volumes of passenger, flight, and booking data, ensuring accuracy and scalability.