



Chetan Patwardhan

Master of Technology

Veermata Jijabai Technological Institute, Mumbai

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EDUCATION

• Veermata Jijabai Technological Institute (VJTI), Mumbai

Master of Technology : Defence Technology

Pursuing : Aug 2023- June 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, Hibernate

Databases & Cloud : SQL Server, MongoDB Server, Firebase, Microsoft Azure, AWS

Containerization & DevOps : Docker, Kubernetes, Jenkins, CI/CD Pipelines

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

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

EXPERIENCE

• Bharat Forge Limited

M. Tech Project Intern – Software Engineer

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.

- 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.

- 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.

- 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.

- 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.

- 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.

- 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.

- 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.