NARENDRA JANI

Osaka, Japan

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Education

Indian Institute of Technology (IIT) Jodhpur	**Dec 2020 – May 2024**
Bachelor of Technology in Mechanical Engineering	*CGPA: 8.45/10*
Rajasthan Board of Secondary Education	**Jul 2018 – Mar 2019**
High School in Science Mathematics	*Marks: 94.60%*

Experience

DG Takano   **Jul 2024 – Present**
Software and Mechatronics Engineer   *Osaka, Japan*

- Developed and deployed a full-stack website using Next.js and Tailwind CSS to visualize water usage analytics, enabling users to monitor consumption, with OAuth-based authentication and admin-controlled data access for hotel chains.
- Configured AWS IoT to receive real-time water data from faucets, programmed the MCU for data transmission, stored readings in DynamoDB, and coded backend APIs to facilitate seamless data retrieval for the website.
- Engineered a self-sustaining MCU and sensor system powered by micro hydro power generation, eliminating the need for external power sources and optimizing energy efficiency by 95% through advanced sleep mode control.
- Designed and developed a robust Python-based software tool to analyze the pulsating flow generated by the water-saving nozzle Bubble-90, accurately measuring pulsation quality and completely eliminating the need for manual inspection.

DG Takano   **Feb 2024 – Mar 2024**
Web Developer Internship   *Remote*

- Created a ReactJs website to visualize the impact of the company's water-saving nozzle, allowing users to track and analyze reductions in water consumption.
- Integrated the ECharts library to create interactive graph components, enhancing data visualization on the dashboard.
- Created backend functionalities to manage CRUD operations for efficient data storage and retrieval using MongoDB.

Projects

ResumeFolio: Real-Time Resume Editor | *ReactJs, NodeJs, Redux, MongoDB* | 🔗 *Website*   **Sept 2023 – Dec 2023**

- Developed an interactive online platform that allows users to create, customize, and edit resumes in real-time with ease.
- Designed a user-friendly interface featuring live PDF previews, text input fields, theme selection, template switching and drag-and-drop functionality for a seamless editing experience.
- Implemented multiple resume templates with smooth transitions, enabling users to switch formats instantly without retyping or copying information.

Progetto: Project Management Website | *ReactJs, NodeJs, MongoDB*   **Feb 2022 – May 2022**

- Coordinated on a project management website for the university to streamline the process of floating and assigning design credit projects, enhancing efficiency for both students and professors by reducing process time by 80%.
- Designed an intuitive interface that allows professors to add, update, or delete projects while providing real-time access to student applications and project data.
- Implemented a student portal where students can search, view, and apply for available projects, ensuring a smooth and organized application process.

Technical Skills

Languages: Python, C/C++, JavaScript, TypeScript, SQL, Kotlin
Web Development: NextJs, ReactJs, NodeJs, Redux, Tailwind CSS, MongoDB, AWS, Figma, Git, Docker
Machine Learning: PyTorch, TensorFlow, Pandas, NumPy, PowerBI, NLP

Relevant Coursework

- Intro to Computer Science
- Intro to Machine Learning
- Data Structures and Algorithms
- Advanced Machine Learning
- Database Management
- Intro to Data Science

Leadership / Extracurricular

IGNUS: Socio-Cultural Festival of IITJ   **Dec 2022 – Feb 2023**
Head of Public Relations   *IIT Jodhpur*

- Led a team of 30+ students and collaborated with multiple departments to successfully organize the largest cultural festival in North-Western India, ensuring smooth event execution.
- Coordinated marketing and outreach efforts, attracting over 3,000 attendees from across India for the four-day festival.
- Oversaw hospitality and accommodation logistics, efficiently managing lodging and support for 400+ participants.