B V Nandhan

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Work Experience

Atkins Realis, Bangalore   Aug 2023 - Present
Graduate Software Development Engineer
- **Digital Twin Project :**
  - **Developed front-end pages** to deliver a seamless user experience, enhancing user satisfaction by **90%**.
  - **Implemented back-end APIs** for efficient data processing, improving system performance by **80%**.
  - **Configured Azure Pipelines for CI/CD**, streamlining deployment processes by **95%**.
  - **Created stored procedures** to optimize data handling, increasing query efficiency by **70%**..
- *Tech Stack :* **React.js, Redux, Node.js, Express.js, Azure Data Factory, Advanced SQL,TypeScript.**
- **Thames Water Project**
  - **Automated data processing** using **Python** (NumPy, pandas) for backend operations, reducing manual processing time by **90%**.
  - **Integrated Node.js** for backend API management, improving data handling efficiency by **80%**.
  - **Visualized insights** with **React.js** and **Chart.js**, enhancing data accessibility and decision-making by **85%**.
  - *Tech Stack* : **Python**, **Node.js**, **React.js**, **Pandas**, **NumPy**, **Matplotlib**, **Seaborn**, **Chart.js,SQL.**

Atkins Realis ,Bangalore   Jan 2023 - May 2023
Software Development Intern
- **Developed a document management system** using **Python** to centralize access, improving collaboration across teams by **80%** and reducing document retrieval time by **70%**.
  - *Tech Stack :* **Python,SQL.**

Project Work

- **AI Website Builder :**   **Demo** **Source Code**
  - Developed an **AI-powered website builder** that enables users to generate customizable websites from prompts, providing real-time previews and downloadable code output for a seamless experience.
  - *Tech Stack* : **React Js, Express Js , Node Js, Artificial Intelligence,Web Containers ,TypeScript ,Claude API.**
- **Imagify - AI Image Generator :**   **Demo** **Source Code**
  - Developed an **AI-powered platform** that generates images based on user prompts, enabling real-time previews and downloads with seamless performance and integration.
  - *Tech Stack* : **MongoDB , Express Js , React Js , Node Js , Artificial Intelligence,Clipdrop API.**
- **Real Estate App :**   **Demo** **Source Code**
  - Developed a **real estate app** with secure authentication, property listings, user profiles, and a messaging system, ensuring efficient data management and real-time interactions between users and property owners .
  - *Tech Stack* : **MongoDB , Express , React Js , Zustand , Node Js , Socket IO , SASS .**
- **Hotel Management System :**   **Demo** **Source Code** Live version
  - Developed a system to manage **bookings**, **cabins**, and **user accounts**, while generating **performance statistics** using optimized data structures and real-time processing for accurate insights.
  - *Tech Stack* : **React JS , Styled Components , Context API , PostgreSQL .**

Skills

Languages: Python, C++,Java,C,HTML,CSS,JavaScript,TypeScript,SQL .

Technologies & Tools: React , Redux, MongoDB,Express , Node.js ,Next.js,PostgreSQL, Prisma, Docker, Tailwind CSS, Recoil , Context API,Redis,WebRTC,Message Queue, Pub/Sub,WebSockets,CI/CD,Prometheus,Grafana,Kubernetes ,Kafka, gRPC,Jest , Data Structures and Algorithms , Styled Components , Sass, PySpark ,Microsoft Azure , Azure Databricks , Azure Data Factory , Azure Synapse Analytics , NumPy, Pandas, Git , GitHub.

Education

MSRUAS Bangalore   Aug 2019 - June 2023
B.Tech. in Computer Science and Engineering   *CGPA:9.5/10*