Vatsal Unadkat

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Education

VIT Bhopal University Bhopal, Madhya Pradesh
BTech in Computer Science and Engineering (CGPA: 8.25) 2022- 2026
G.T Sheth School Rajkot, Gujarat
12th State board (67%) 2021-2022
Saint Paul's School Rajkot, Gujarat
10th ICSE (89%) 2020 – 2021

Projects

Voyage Vista – A Tour Website (GitHub) Feb 2024 – May 2024
- Designed and deployed *Voyage Vista*, a full-stack travel website, leveraging **React, Node.js,** and **RESTful APIs** to handle over **1,000** potential user interactions daily, streamlining travel planning for users across 3+ key features: **destination exploration, accommodation booking, and itinerary planning.**
- Processed a robust backend with modular Node.js architecture, integrating **3 third-party APIs** (e.g., payment systems, diagnostic tools) to ensure **seamless transactions** and accurate data exchange, while delivering the project within a **6-month Agile sprint timeline**.
- Developed a system to serve as gateways to adventure, offering a glimpse into the vast array of experiences awaiting travelers. Provided detailed information on over **100 destinations, 200+ accommodations, and 50+ itineraries.**

Audit Flow - SaaS product website (GitHub) May 2025 – June 2025
- Engineered modern SaaS landing page using **TypeScript, React, and Tailwind CSS, Vite toolchain** and integrated **Supabase** backend **for authentication and data management** implementing responsive design principles for 99%+ mobile/desktop compatibility.
- **Performance-Optimized Deployment** - Achieved **90+ Lighthouse scores** via code-splitting and lazy loading, deployed via **Vercel** with **CI/CD pipeline** for global **CDN distribution**.
- **Backend-Frontend Integration** - Connected **supabase real-time database** to React frontend using TypeScript interfaces, implementing **secure API endpoints** for scalable data operations.
- Deployment Link

Experience

Tark Technologies | Software Development Intern (Certificate) Oct 2024 - Dec 2024
- Developed an **AWS Billing Engine** in C++, leveraging AWS resource, usage, and pricing APIs to generate detailed monthly itemized bills for clients across multiple global regions, processing over **750 usage hours** and ensuring accuracy in **cloud cost tracking**.
- Designed and implemented a Train **Ticket Reservation System** in C++, utilizing object-oriented programming principles to handle **seat allocation**, ticket booking, **waitlist management**, and real-time availability updates, **improving system efficiency by 20%.**
- Applied advanced C++ programming techniques to design robust and **scalable software solutions**, contributing to system architecture and implementation for **enterprise-grade applications**, delivering two projects within a **three-month timeline**.

Technical Skills

- **Languages:** C++, Python, SQL(MySQL), JavaScript, HTML/CSS(Tailwind).
- **Technologies:** React, Node.js, Vite, TypeScript, Express.js, Mongoose, MongoDB.
- **Concepts:** Analytical thinking, Object-oriented programming (OOPS), Data Structures and Algorithms (DSA), Functional Programming, REST API, AWS Cloud, Kali Linux.
- **Developer Tools:** Git, GitHub, VS Code, Visual Studio, PyCharm.
- **Profiles:** LeetCode, Code360, GitHub.

Achievements | Certifications

- Secured a 3rd position in the "Mission Impossible – Code protocol" Hackathon Conducted by the AI club of VIT Bhopal, Contributed in the Girl Script Summer of code 2024(GSSoc'24).
- **Event management lead** of the Open-Source Club and **core team member** of the Ramanujan math's Club at VIT Bhopal University.
- Participated in the Flipkart Grid Hackathon 6.0, Adobe Hackathon, Walmart Sparkathon, and HackOn with Amazon.
- **Certifications: AWS Academy |** Cloud Architecting, **AWS Academy |** Cloud Foundations, **Coursera – Google |** The bits and bytes of Computer Networking, **NPTEL |** Cloud Computing, **Ethnus |** Mern full-stack