VISHAL VISHWAKARMA

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EXPERIENCE

Software Engineer Intern   Feb 2025 – Jul 2025
Tecell India Private Limited   *Remote*

– Developed and optimized RESTful APIs using Node.js and Express.js, **improving backend efficiency by 30%**.
– Built **reusable UI components** in React.js + TypeScript, accelerating feature delivery and maintaining consistent design.
– Deployed **serverless workflows via AWS Lambda**, reducing infrastructure overhead and **enhancing system reliability**.
– Collaborated with senior engineers using **AWS CodeCommit** for version control — created feature branches, submitted PRs, and iterated on peer reviews before main-branch integration.

PROJECTS

Drazy | *Next.js, Node.js, TypeScript, WebSockets, PostgreSQL, Prisma, Monorepo*   GitHub

– Built **Drazy**, a real-time collaborative whiteboard enabling multi-user drawing and shape editing.
– Designed a three-server setup — **Next.js** for SSR/SSG, a **WebSocket server** for live sync, and an **HTTP API backend** for data ops.
– Added an **in-memory queue** and **2s batch flush** for pending ops, cutting redundant DB writes.
– Achieved **sub-100ms real-time sync** through optimized WebSocket message flow.
– Engineered a modular **Canvas engine in TypeScript** with OOP structure for better rendering and maintainability.

Food Share | *React.js, Recoil, Node.js, MongoDB, Tailwind CSS, Cloudinary*   Live Demo | GitHub

– Built a full-stack platform connecting restaurants and NGOs to **redistribute surplus food**, streamlining donation logistics.
– Implemented secure authentication using JWT + bcrypt with input validation via Zod, ensuring data integrity.
– Integrated Cloudinary for image storage and delivery, reducing server bandwidth usage by **30%**.

Image Gini | *React.js, Tailwind CSS, Node.js, MongoDB, Razorpay*   Live Demo | GitHub

– Developed **Image Gini**, a text-to-image generator leveraging Generative AI with a credit-based payment system.
– Integrated Razorpay for secure real-time payments and JWT-based authentication for user access control.
– Optimized backend pipelines to batch AI inference requests, reducing average response latency and **server load**.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, C++, Java
Frontend: React.js, Next.js, Tailwind CSS, Redux, Recoil
Backend: Node.js, Express.js, REST APIs, Authentication (JWT, OAuth)
Databases: MongoDB, PostgreSQL, SQL
Dev Tools & Cloud: Git, Postman, AWS, Vercel, Render, Cloudinary
Core CS: Data Structures & Algorithms, OOP, DBMS, OS

EDUCATION

Mahakal Institute of Technology and Management, R.G.P.V.   2022 – 2024
Master of Computer Application (MCA) - (7.39 CGPA)   *Ujjain, India*

Advance Science and Commerce College, Vikram University   2018 – 2021
Bachelor of Science, Computer Science - (7.70 CGPA)   *Ujjain, India*

ACHIEVEMENTS

– Solved **350+ DSA problems** across platforms like LeetCode, CodeStudio, and GeeksforGeeks, showcasing consistent algorithmic growth.

– Maintained a strong problem-solving streak with clean, optimized code and solid time–space complexity understanding.

– Deployed multiple **production-grade full-stack apps**, demonstrating end-to-end ownership and delivery consistency.