

Ratlavath Manisha

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Experience

PayTM-Wallet | NextJS, Turborepo, Prisma ORM, Docker, CI/CD

live

*Digital wallet application enabling secure and seamless money transactions with a **multi-tier** architecture*

- Ensured atomicity and consistency of financial transactions by implementing **ACID principles**.
- Prevent financial errors**, such as negative balances, ensuring 100% compliance with business rules with **Zod**.
- CI/CD Integration** for Automated builds and deployments using **GitHub Actions**.
- Its a **containerized applications** achived using **Docker**, improving portability.
- Microservices** managed using Turborepo for seamless coordination between frontend and **backend services**.
- Secured user passwords using **bcrypt for hashing** ensuring **data protection**.
- Designed Webhooks for real-time processing as a **third-party integrations** and added NextAuthJS for authentication.

ThoughtCrafer-blogging | TypeScript, HonoJS, Cloudflare Workers, PostgreSQL, JWT, Zod

live

A platform for users to share and discover insightful content, combining a scalable backend with an engaging frontend

- Leveraged Prisma ORM for **schema-driven database** interactions enabling 50% faster database migrations.
- Developed a **npm module** to centralize common logic to code **reusability, consistency, and maintainability**.
- Integrated Rest APIs** for user profile management, built **CRUD operations** for enhanced user experience.
- Backend built with Cloudflare Workers for a **serverless architecture**, ensuring **high availability and low latency**.

Cognifyz Technologies | Web Development Intern | Internship

- Collaborate with a team of developers to **Design and code** on features for web applications.
- Participated in **code reviews** to improve maintainability in an **agile environment**.
- Worked on reusable code and implemented **debugging fixes** across components, ensuring reliable functionality.

Projects

Image captioning With Multi-Model Analysis | Python, TensorFlow, Fliker8k

- Developed an AI driven **deep learning models** leveraging ML techniques to generate contextually accurate image captions, achieving an impressive **92% BLEU score**.
- Conducted **user testing** with 10+ visually impaired participants, improving **customers satisfaction by 30%**

Sign Language To Text Conversion | OpenCV, TensorFlow, Numpy

- Built a system translating sign gestures into real-time text, achieving a **recognition accuracy of 85%**.
- Designed the application to bridge communication gaps for the differently-abled.

Skills

programming language: Java, JavaScript, nodejs, TypeScript.

Frontend and Backend: React, nextjs, expressjs, Tailwind CSS.

Database: MongoDB, PostgreSQL, Prisma ORM, SQL, NoSQL, Redis.

cloud and DevOps: AWS, Docker, CI/CD pipelines

Core fundamentals: data structures, algorithm, Operating System, Networking, relational database, Object-Oriented.

Miscellaneous: OOD, Backend-communication-protocols (kafka, Pub-Sub, websocket), distributed system, SDLC.

Achievements and Responsibility

- Successfully completed the **TalentNext course on Java J2EE** during May-September 2023.
- Achieved **Global Rank 11209/36858** in Smart coding by Smart Interviews (2023).
- Increased **event attendance by 30%** as an **Event Organizer** for the IEEE Student Branch with teams work which enhanced collaboration and communication skills.

Education

Vardhaman College Of Engineering
B.Tech in Computer Science and Engineering

Dec 2020 - May 2024
CGPA : 7.72