# Ratlavath Manisha

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## Experience

**PayTM-Wallet** | *NextJS, ExpressJS, Turborepo, PostgreSQL, Prisma ORM, NextAuthJS, Docker.*　　　　live

- Designed a **real-time wallet system** enabling **peer-to-peer money transfers** with minimal latency.
- Integrated simulated banking API webhooks, **reducing transaction processing time** by **30 seconds** per request.
- Optimized wallet operations with **70% faster response times** by reducing query overheads.

**ThoughtCrafer-blogging** | *TypeScript, React, Cloudflare Workers, Prisma, PostgreSQL, JWT, Zod*　　　　live

- Developed a blogging application enabling **secure sign-ins** and **seamless blog management**.
- Utilized Prisma with connection pooling for **optimized database queries**, improving page load times by **40%**.
- Implemented JWT-based authentication ensuring **99.9% uptime** during deployment across regions.

**Cognifyz Technologies** | *Web Development Intern*

- Adapted quickly to contribute to the **development and testing of web applications** using frontend technologies and unit testing.
- Assisted for code reviews, optimizing code for better performance and **faster load times, achieving a 20% improvement** in application speed.
- Improved **in technical documentation, reusable code and debugging fixes** of the projects.

## Projects

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

- Conducted user testing with **10+ visually impaired participants**, leading to a **30% improvement** in user satisfaction and validating the solution's effectiveness.
- Created a deep learning model to generate **contextually accurate image captions** for diverse datasets with **92% BLEU score**.

**Sign Language To Text Conversion** | *OpenCV, TensorFlow, Numpty*

- The project bridges the communication gap by converting sign language gestures into real-time text, enabling **seamless interaction**.
- Built a system translating sign language gestures to text with a recognition **accuracy of 85%+** on ASL datasets.

## Technical Skills

**Programming Languages**: Java, JavaScript, TypeScript, Node.js.

**Frameworks and Libraries**: ReactJS, NextJS, ExpressJS, Prisma ORM, Tailwind CSS, NextAuthJS.

**Databases**: MongoDB, PostgreSQL, SQL, NoSQL, Redis.

**Version Control**: Git, GitHub.

**Cloud**: Amazon Web Services (AWS), Docker, CI/CD.

**Core Subjects**: Data Structure and Algorithm, Operating System, Networking, Database, Object oriented.

**Miscellaneous**: Multithreading, Design Patterns, Low Level Design, Agile, Kafka, WebSocket, REST API.

## Achievements and Responsibility

- HackerRank problem-solving (Intermediate) Certification, earned on 13th January 2024.
- Successfully completed the **TalentNext course on Java J2EE** during May-September 2023.
- Certified **Smart Coder** form Smart Interviews in 2023, achieved a **Global Rank: 16559/36858**.
- presented **the paper "Sign Language To Text Conversion"** at the 1st **EAI ICETEMS-2023**, VMEG, Hyderabad.
- Volunteered as **Event Organizer** for IEEE Student Branch, coordinated and managed event, Resulting in a **30% increase in event attendance** and improved team collaboration through effective communication strategies.

## Education

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| Vardhaman College Of Engineering | Dec 2020 - May 2024 |
| *Bachelor degree in Engineering, Computer Science(CSE)* | *CGPA : 7.72* |