Ranjana

📞 +91-7901702159   ✉ uccranjana13@gmail.com   in Linkedin   ⚙ Github

Work Experience

Shaurya Software Private Limited   Aug 2024 – Present
Jr. Software Engineer   *Zirakpur, Punjab*

- Played a key role in developing the **JusKlik school ERP system** from the ground up, contributing to 9 different modules, including core features like **CRM**, **Library Management**, and **Visitor Management**, ensuring scalability to support **110+ schools** and a growing user base.
- Designed and maintained a dynamic **User and Role Management** system where roles are programmatically assigned during school onboarding, enabling fine-grained **module-level and page-level access control** based on user roles across the ERP platform.
- Maintained bulk visitor creation in the Visitor module using WhatsApp Business API and email services, and significantly improved performance by implementing **Multithreading** in Node.js. Enhanced system scalability while minimizing technical debt.
- Integrated **WhatsApp Business API services** into the ERP, enabling dynamic template creation and management for administrative communication, improving operational flexibility and reducing manual intervention.
- **Technologies: React.js**, **Redux**, **TypeScript**, **NestJS**, **PostgreSQL**, **Microservices Architecture**.

Skill Enhanced (Internship)   April 2024 – July 2024
E-learning Website   *Noida*

- **E-learning Platform Development:** Contributed to the development of an e-learning website focused on delivering interactive learning modules, quizzes, and real-time progress tracking for students.
- **Impact:** Enhanced user engagement by integrating gamification elements, leading to a 20% increase in active user participation. Improved scalability to support a growing user base.
- **Technologies:** Node.js, React.js, MongoDB, Express.js, REST APIs, JWT Authentication

Projects

RemoteDesktop-Control   Nov 2024-Present

- Enhanced the **RemoteDesktop-Control** open-source project by focusing on desktop components for improved remote desktop access and file-sharing capabilities.
- Developed duplex file-sharing functionality, enabling seamless two-way transfers, and resolved keyboard input issues to ensure better usability and cross-platform compatibility.
- **Technologies:** TypeScript, Node.js, Cross-platform, File Sharing, Remote Desktop.

Secure Share   Sept 2024-Oct 2024

- Built a secure file-sharing system using **Electron.js** and **Node.js**, enabling seamless file transfer within local networks, significantly improving data transfer speed and reducing reliance on external file-sharing services.
- Implemented an efficient registration system, allowing users to easily connect and share files across multiple systems, leveraging faster local network speeds for quicker and more reliable transfers.
- **Technologies:** Electron.js, Node.js, Express.js, WebSocket, Local Network.

Technical Skills

Languages: Java, JavaScript, TypeScript
Backend: Node.js, Nest.js, Express.js
Frontend: React.js, Redux, Material-UI, HTML, CSS, Bootstrap
Databases: MySQL, PostgreSQL, MongoDB
Tools and Technologies: Docker, Postman, VS Code, GitHub, Git, GitHub Actions

Education

Chandigarh University(CU)   2023 – Present
Master of Computer Applications (MCA)   *Mohali, Punjab*

Chandigarh Group of Colleges, Jhanjeri   2020 – 2023
*Bachelor of Computer Applications (BCA) — **8.36 CGPA***   *Mohali, Punjab*