Chetan Belwal

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Experience

Rubico IT PVT LTD, — Nov 2023 - Present
Associate Software Engineer - Typescript, Node, Nest, ExpressJS, Redis, MySQL, — Haridwar, India

- Worked with **NestJS** and **ExpressJS** to develop backend modules of an enterprise application.
- Designed and implemented **RESTful** services adhering to clean architecture principles for modularity and maintainability.
- Implemented database solutions using **MySQL**, **PostgreSQL**, and **MongoDB**, optimizing data retrieval and storage for scalable applications.
- Collaborated with front-end developers to integrate APIs, ensuring seamless data flow and enhancing user experience.
- Refactored the **WebSocket** architecture, resolving a critical memory leak and boosting real-time communication performance by 80%.
- Developed user deletion architecture, using **Redis**, **Bull Queue**.
- Developed a custom Node.js package to handle file uploads and downloads over **SMTP** servers. Integrated this package into an **AWS Lambda** function to enable scalable, serverless processing.

Projects

The Freedom Fight | NestJs, MySQL, Redis, Bull Queue, Docker
- Built and maintained CRUD APIs and server-side rendered **Vue** components using **Twig** in a modular NestJS backend.
- Developed and integrated an **admin pane**l and statistics dashboard, improving internal operations visibility.

Swagger Token Store | JS, HTML, CSS, ChromeAPI — Chrome Web Store | Github
- Created a developer tool **Chrome extension** to persist and auto-inject authorization tokens into **Swagger UI** requests.

Nodemailer-Mailchimp-Transactional | Typescript, NPM — NPM | Github
- Published a custom **NPM package**, a Nodemailer transport module, to send transactional emails via Mailchimp's API.

Doc Chat | NestJS, Ollama AI, PDF Parsing — Github
- Developing a chat-based app powered by **Ollama AI** that allows users to interact with documents using natural language.

Technical Skills

Languages: Javascript, SQL (MySQL), Typescript, HTML/CSS, Java
Frameworks: Nestjs, ExpressJs, Reactjs
Databases: MySQL, MongoDB, PostgreSQL
Developer Tools: Git, Docker, AWS, VS Code, Github copilot, Chatgpt, Claude, Postman, Swagger

Education

Kumaun University, — 2021-2024
Bachelor of Computer Applications, — Nainital, India

Chandigarh University(Online), — 2024-2026
Master of Computer Applications, — Mohali, India