

Maibam Maneesana Singh

Chandigarh, India

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Professional Summary

Results-oriented Software Engineer with experience architecting scalable full-stack solutions within the .NET and JavaScript ecosystems. Specialized in modernizing legacy architectures and building secure, high-performance web applications. Demonstrated expertise in improving **Core Web Vitals**, ensuring global security compliance (Google CASA), and optimizing complex data pipelines. Passionate about systems thinking and delivering engineering excellence in fast-paced environments.

Technical Skills

Languages: TypeScript, JavaScript (ES6+), C# (.NET 8), SQL, C++, HTML5, CSS3

Frontend: React.js (Advanced Hooks, Context API), Vue.js (Composition API), Redux Toolkit, Tailwind CSS, Vite

Backend & Cloud: Node.js, NestJS, ASP.NET Core, AWS (S3, CloudFront), Docker, Nginx, Linux (Fedora/Ubuntu)

Databases & Tools: PostgreSQL, MongoDB, Redis, SQL Server, Git, Neovim, Postman, CI/CD (Azure DevOps)

Professional Experience

Covalience India Pvt. Ltd

Chandigarh

Application Engineer

Jan 2023 – Present

- Security & Compliance Architecture:** Led the security hardening of a fintech-grade MVP dashboard using **React.js**; successfully remediated 15+ critical vulnerabilities (XSS, CSRF) to achieve **Google CASA** certification, enabling secure enterprise deployment.
- High-Performance Image Processing:** Engineered a latency-critical API endpoint using **.NET 8** and native **libheif** integration for on-the-fly HEIC-to-JPG conversion, significantly reducing storage costs and improving cross-browser compatibility.
- Legacy Modernization (Monolith to Micro-frontend):** Spearheaded the decoupling of a legacy ASP.NET monolithic application into modular **Vue.js** components; achieved a **40% reduction in build times** and accelerated deployment velocity from weekly to daily releases.
- Database Optimization:** Refactored complex SQL queries and optimized data synchronization workflows between NetSuite and SQL Server, reducing query execution time by **approx. 35%** and alleviating server load during peak traffic.
- Frontend Performance Engineering:** implemented lazy loading strategies and image optimization on high-traffic pages, boosting **Core Web Vitals (LCP)** scores by 30% and improving organic search ranking.
- Authentication Systems:** Designed a secure implementation of OAuth2 refresh token flows via custom **OWIN** middleware, enhancing session security without compromising user experience.

Key Projects

Video Streaming Platform (Full Stack)

Personal Project

Tech Stack: React.js, NestJS, TypeScript, AWS S3, PostgreSQL

- Architected a video streaming application supporting large file uploads; implemented **AWS S3 multipart uploads** to handle files 1GB+ efficiently.
- Developed a scalable backend API using **NestJS** to manage video metadata and presigned URLs for secure content delivery.
- Designed a responsive, type-safe frontend using **React** and **TypeScript** with a custom UI library based on **Tailwind CSS**.

Education

Doaba Institute Of Engineering & Technology

Punjab

B.Tech in Computer Science and Engineering

2019 – 2023

CGPA: 7.6/10

Relevant Coursework: Data Structures & Algorithms, Database Management Systems, Operating Systems, Computer Networks