Maibam Maneesana Singh

Chandigarh, India

☐ +91 9366137639 • ✉ mmaneesana@gmail.com • 🌐 mmaneesanasingh.online
in maibam-maneesana-singh-a113621a7 • 🐙 Maneesana

Professional Summary

Versatile Software Engineer with 3 years of experience specializing in **Full Stack Development** and **Modern Web Engineering**. Proficient in the **React.js**, **Vue.js**, and **.NET** ecosystems. Adopts a **systems thinking** approach to design scalable, end-to-end solutions. Proven ability to solve complex technical challenges, modernize legacy systems, and deliver secure, high-performance applications compliant with global security standards.

Technical Skills

Languages: JavaScript (ES6+), TypeScript, C#, SQL, HTML5, CSS3
Frontend: React.js (Hooks, Context), Vue.js (Composition API), Redux Toolkit, Tailwind CSS, Vite
Backend & Cloud: Node.js, NestJS, .NET 8, ASP.NET Core, AWS (S3, CloudFront), Docker, Nginx
Databases: PostgreSQL, MongoDB, SQL Server, Redis
Tools: Git, Linux, Azure DevOps, Postman, Neovim

Professional Experience

Covalience India Pvt. Ltd   **Chandigarh**
Application Engineer   *Jan 2023 – Present*

- **Security & Compliance:** Developed a secure MVP dashboard using React.js; remediated 15+ critical vulnerabilities (XSS, CSRF) identified during AST scans, ensuring full compliance with **Google CASA** standards.
- **.NET Backend Engineering:** Engineered a secure Refresh Token flow via **OWIN** middleware and developed a high-performance API endpoint for on-the-fly **HEIC-to-JPG** conversion using native **libheif** integration.
- **Legacy Modernization:** Spearheaded the decoupling of a legacy ASP.NET monolithic application into modular **Vue.js** components, reducing build times by 40% and improving deployment velocity.
- **Data Pipeline Optimization:** Optimized data synchronization workflows between NetSuite and SQL databases by refactoring complex SQL queries, reducing execution time and server load.
- **Performance Optimization:** Designed scalable REST APIs using **.NET 8** and implemented frontend lazy loading strategies, boosting **Core Web Vitals (LCP)** scores by 30%.

Engineering Projects

Personal Project   **React, NestJS, AWS, Redis**
High-Scale Video Streaming Architecture   *2025*

- Architected a video-on-demand platform supporting **HLS Adaptive Bitrate Streaming**, ensuring consistent playback quality across varying network bandwidths.
- Implemented **Multipart Uploads** with Presigned URLs to AWS S3, enabling reliable upload of large video files (1GB+) by bypassing server-side bottlenecks.
- Designed an event-driven transcoding pipeline using **RabbitMQ** and **Node.js workers** to asynchronously process raw uploads into multi-resolution streams (360p, 720p).
- Optimized metadata retrieval latency by 50% through a **write-through caching strategy** using Redis and Prisma ORM.

Education

Doaba Institute Of Engineering & Technology   **Punjab**
B.Tech in Computer Science and Engineering   *2019 – 2023*
CGPA: 7.6 — Coursework: Data Structures, Algorithms, DBMS, Operating Systems