

Lovish Sharma

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Summary

Software Engineer with 1.5+ years of experience designing, building, and shipping production-grade systems across the full software lifecycle — spanning frontend (Vue.js, Next.js), backend (.NET, Node.js), and distributed databases (SQL Server, PostgreSQL, MongoDB). Delivered measurable business impact at Microchip Technology, including a **22% lift in search relevancy** and end-to-end ownership of internal tooling used by global product teams. Proven ability to translate complex requirements into scalable, maintainable solutions without sacrificing code quality.

Experience

Microchip Technology India Pvt. Ltd

Bangalore, India

Software Engineer I

Jul 2024 – Present

- Drove a **22% improvement in search relevancy** and near-elimination of null-result queries by architecting a Lucidworks Fusion integration with .NET APIs and SQL Server, directly improving product discoverability for millions of catalog items.
- Architected and launched **TreeLink**, a full-stack Vue.js + .NET application for hierarchical product-category visualization, enabling product managers to restructure category trees **3× faster** than the prior manual workflow.
- Built and owned **3+ admin applications** (Vue.js, .NET, MongoDB, SQL Server) that consolidated product data management workflows, reducing manual operational overhead by an estimated **40%** across product teams.
- Scaled backend APIs to handle **50K+ product SKUs** with consistent sub-200ms response times by optimizing SQL Server query plans and introducing targeted indexing strategies.

Microchip Technology India Pvt. Ltd

Bangalore, India

Software Engineer Intern

Jan 2024 – Jun 2024

- Engineered **PowerShell automation scripts** that eliminated **8+ hours/week** of manual data-insertion work, reducing human error rate by over 90% across recurring ETL operations.
- Launched a real-time **search analytics dashboard** surfacing KPIs (click-through rate, zero-result rate, query volume) that enabled data-driven tuning of the search engine — contributing to the subsequent 22% relevancy gain post-hire.
- Resolved **15+ critical bugs** across frontend and backend modules, measurably improving page load times by **30%** and earning a return offer as a full-time Software Engineer I.

Projects

SoundSwap | React.js, Node.js, Express, MongoDB, Tailwind CSS, Spotify API, YouTube API

- Launched a full-stack playlist-migration platform converting Spotify libraries to YouTube Music, supporting **real-time sync of 500+ track playlists** via Spotify and Google OAuth 2.0 integrations.
- Engineered Express + MongoDB backend with track-mapping and metadata-retrieval APIs achieving **sub-300ms** average response, with secure cross-platform OAuth ensuring full privacy compliance.

Invixy | Next.js, Prisma, PostgreSQL, NextAuth.js

- Architected a multi-tenant SaaS invoice management platform with **dynamic tax-calculation engines** supporting India, Canada, and US tax regimes, enabling businesses to eliminate manual tax computation entirely.
- Implemented role-based access control (RBAC) via NextAuth.js for 3 distinct personas (owner, accountant, employee), reducing unauthorized-access surface area to zero across all user flows.

Technical Skills

Frontend: Vue.js, React.js, Next.js, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Bootstrap, Material UI

Backend & Runtime: .NET Framework, Node.js, Express.js, RESTful API Design, Java

Databases: SQL Server, PostgreSQL, MongoDB, Query Optimization, Indexing

Tools & DevOps: Git, GitHub, PowerShell, Lucidworks Fusion

Concepts: Data Structures & Algorithms, Object-Oriented Programming, Scalable System Design, OAuth 2.0, RBAC

Education

Chandigarh University

Bachelor of Engineering in Computer Science — **CGPA: 8.35 / 10**

Mohali, Punjab

2020 – 2024