

SHIVAM VERMA

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Professional Summary

Full-Stack Software Engineer and Team Lead with 7+ years of experience designing, building, and scaling production-grade web applications using Node.js, React.js, MongoDB, PostgreSQL, Redis, and AWS. Strong backend foundation in REST API development, database design, caching, and cloud-based application development, complemented by recent experience leading frontend modernisation initiatives and engineering teams. Proven track record of architecting scalable solutions, delivering high-impact products serving 500K+ users, and contributing across the entire application stack from backend services and cloud integrations to frontend architecture and performance optimisation.

Technical Skills

Backend: Node.js, Express.js, NestJS, REST API Design, API Performance Optimisation

Backend Architectures: Modular Monoliths, Microservices, Layered Architecture, Event-Driven Architecture

Database & Caching: MongoDB, MySQL, PostgreSQL, Redis

Cloud & DevOps: AWS (S3, Lambda, ECS Fargate, ECR, IAM, Secret Manager), Docker, CI/CD

Frontend: React.js, Preact, Next.js, Performance Optimisation, Context API, React Hooks, Angular

Frontend Architectures: Micro Frontends, Component-Based Architecture

Languages: JavaScript (ES6+), TypeScript, HTML5, CSS3

AI & GenAI: Prompt Engineering, LLM Integration, RAG Pipeline, MCP Architecture, AI-Powered Application

AI Engineering Tools: Claude Code, GitHub Copilot

Work Experience

Haptiq Labs Pvt Ltd | Pune | Senior Software Engineer | Jan 2025 – Present

Skills: JavaScript, TypeScript, React, Context API, Hooks, Micro Frontends, Node.js, MicroServices, AWS Lambda, API Gateway, Docker, CI/CD Pipeline, Agile Methodology, Version Control

- Promoted to **Team Lead** and led a cross-functional **team of 7 engineers** across frontend, backend, and UI disciplines, driving sprint planning, technical grooming, release management, and hiring activities.
- Architected and delivered **Horse Watch, an app-agnostic micro frontend platform** enabling runtime integration, API contracts, and independent deployments across React and legacy web applications.
- Architected Horse Watch's **real-time communication layer** using **leader election (Web Locks API and BroadcastChannel)**, enabling cross-tab SSE synchronisation that reduced backend connections from $O(n)$ to $O(1)$ with seamless failover.
- Spearheaded development and **launch of Newbie**, a greenfield application built with Preact, owning delivery from architecture through Phase-1 release.

Webonise Lab | Pune | Senior Software Engineer | Apr 2023 – Dec 2024

Skills: JavaScript, TypeScript, React, Micro Frontends, Component Architecture, Performance Optimisation

- Modernised a large-scale, high-traffic application by **migrating 100+ class-based** React components from React 16 to React 18 while maintaining uninterrupted feature delivery.
- Improved application performance by **introducing progressive data-loading strategies**, reducing initial page load time on key product pages by **approximately 3 seconds**.
- Transformed multiple legacy PHP and Backbone.js applications into scalable React-based platforms, improving maintainability, user experience, and long-term extensibility.

Pracemo Global Solutions | Pune | Software Consultant | Oct 2021 – Mar 2023

Skills: JavaScript, TypeScript, Node.js, Microservices, PostgreSQL, Agile Methodology, Angular, REST APIs

- Designed and developed **scalable backend REST APIs** using Node.js and Express.js for customer-facing applications at **Ather Energy**.
- Built and maintained backend services following **layered architecture principles**, focusing on clean business logic separation, maintainability, and performance.
- Optimised API workflows and backend processes to improve application scalability, reliability, and operational efficiency.
- Collaborated with cross-functional engineering teams to design and deliver backend solutions aligned with business requirements and system architecture.

Skreem Technology | Bengaluru | Associate Software Engineer | Sep 2019 – Oct 2021

Skills: JavaScript, Node.js, Monolithic, MongoDB, REST API, AWS S3, Job Scheduling, Redis, BullMQ, Agile

- Designed and developed backend services and **REST APIs using Node.js**, Express.js, and **MongoDB** to support **influencer-brand collaboration, campaign management**, and reporting workflows.
- Implemented **Redis-based caching and BullMQ-powered background job processing** to improve asynchronous task execution, application performance, and scalability.
- Developed scalable backend modules for user management, campaign workflows, and data processing while ensuring code quality and maintainability.
- Collaborated with frontend and product teams to deliver reliable end-to-end features across the complete software development lifecycle.

Artomate Studio | Bengaluru | Web Developer | Aug 2018 – Apr 2019

Skills: PHP (Laravel, CodeIgniter), Ajax, JavaScript, HTML5, CSS3, MySQL, MVC Architecture

- Developed **full-stack web applications** using JavaScript, PHP, HTML, CSS, and MySQL, delivering end-to-end features from backend functionality to responsive user interfaces.
- Collaborated directly with clients to gather business requirements, translate them into technical solutions, and deliver production-ready web applications.

Project

NeuraLens | AI-powered Mobile Application | Sept 2025 – Oct 2025

Skills: JavaScript, TypeScript, NestJS, React Native, MongoDB, REST API, AWS (S3, ECS, ECR, CloudFront), Docker, Expo, AI Integration (OpenRouter, Llama 4 Maverick)

- Built a **cross-platform AI-powered mobile application** using React Native and Expo, enabling users to capture or upload images for AI-assisted analysis.
- Designed and developed **backend APIs using NestJS and MongoDB** for image processing, metadata management, and secure cloud storage integration.
- Implemented **secure image uploads to AWS S3**, image compression workflows, and scalable file management for efficient media handling.
- Integrated **Llama 4 Maverick to generate AI-powered image insights**, delivering an end-to-end experience from image capture to intelligent analysis.

Education

Master of Computer Applications

Indira Gandhi National Open University | Jul 2016 - Jun 2018 | India

Bachelor of Computer Applications

Indira Gandhi National Open University | Jul 2013 - Jun 2016 | India