

Lovepreet Singh

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Professional Summary

Full Stack Engineer and former Engineering Manager with 9+ years of experience building scalable SaaS products with React, Next.js, TypeScript, Python, and AWS. Builds practical AI features into real products, including LangGraph-based agents, RAG-powered assistants, and workflow automation. Now works independently with clients, taking products from architecture through deployment, with a strong grounding in security and compliance (SOC 2, ISO 27001).

Skills

Languages: TypeScript, JavaScript, Python, PHP, SQL, C, C++

Frameworks: Next.js, React, Tailwind, FastAPI, Laravel, Lumen, Redux, Drizzle ORM, React Three Fiber

AI Integration: LangGraph, LangChain, RAG, Tool-Calling Agents, Vector Search (Elasticsearch kNN), Langfuse

Cloud/DevOps: AWS (ECS, EC2, Lambda, CloudFront, RDS, DynamoDB, S3, SQS, SNS, SES, IAM, CloudWatch, Amplify), AWS CDK, SST, AWS Copilot, Docker, GitHub Actions

Databases: MySQL, DynamoDB, Elasticsearch, Redis

CMS & Testing: Sanity, Keystatic, Playwright, Vitest, axe-core, Lighthouse CI

Tools: Git, Claude Code, GitHub Copilot, JIRA, Postman, Swagger

Practices: API Design, Microservices, Serverless Architecture, Automated Testing, Web Accessibility, Performance Optimization, Security Best Practices, Code Reviews, Mentoring

Professional Experience

Independent Software Consultant (Freelance) - Remote

Aug 2026 – Present

- Designed and shipped a four-language marketing site for a boutique motel (alinemotel.com.au) using Next.js, TypeScript, and Tailwind, with a Git-backed CMS (Keystatic) and live room rates via a cached booking-engine proxy; scores 100 on Lighthouse accessibility, best practices, and SEO (98 performance), enforced in CI with 110 end-to-end tests, and the owner now updates all content without developer help.
- Built a four-language restaurant marketing and menu site (apracurryhouse.com.au) using Next.js, TypeScript, and Keystatic on AWS Amplify, with a weekly Playwright scraper that syncs the delivery-platform menu (102 dishes) automatically and accessibility tests gating every page in light and dark themes; scores 100 on Lighthouse accessibility, best practices, and SEO, and non-technical owners manage the site with no manual menu updates.
- Building a multi-tenant SaaS fleet safety and compliance platform for trucking carriers (Next.js, TypeScript, MySQL/Drizzle, AWS ECS/CDK), encoding 64 regulatory rules, including document expiry countdowns, status precedence, and risk scoring, as pure, testable domain logic covered by 330+ automated tests.
- Building a bilingual marketing and logistics-tools site for a trucking company on serverless AWS (Next.js, TypeScript, Sanity CMS, SST, Lambda, DynamoDB, SQS), with a queue-backed lead pipeline, in-region data residency for privacy compliance, and a WebGL 3D scroll experience held to a 350 KB budget with reduced-motion fallbacks; no always-on compute, so hosting cost scales to near zero at idle.

Engineering Manager, VMock - Gurugram, India

Aug 2021 – Aug 2026

- Built an internal compliance agent (Next.js, TypeScript, Drizzle/MySQL, Elasticsearch kNN) that answers security questionnaires from company documents using a multi-source RAG agent (curated memory, vector retrieval, gated web search), with reversible PII masking on every model and embedding call and a full audit log of all outbound data.
- Automated client-specific resume configuration with Python, LangGraph, and FastAPI: built an agentic workflow that turns client-supplied CSV input into resume presentation checks, cutting setup time from 1 hour to 5 minutes, then used those checks and other inputs to automate most of the resume editor configuration, reducing customization time from 1 hour to 10 minutes.
- Engineered an orchestrator agent for the Admin chatbot in Smart CMC within 8 weeks for a client demo, leveraging LangGraph (context, tools, router, memory, streaming, human-in-the-loop) and Langfuse for diagnostics; powered live frontend interactions via WebSockets and React, with a FastAPI backend.
- Automated Smart CMC workflows with LangGraph, LangChain, and FastAPI (Python), using tuned prompts and web search tools to auto-generate employer branding pages and cutting manual effort by 70%.

- Led the front-end re-architecture, rebuilding the legacy React experience on a new-generation setup with AI-assisted coding workflows and a shared packages repository; supported partner teams through the transition while delivering 3+ projects in parallel with rapid prototyping, without compromising performance or maintainability.
- Implemented Zoom integration for Candidate, Employer Relations, and Employer segments, enabling seamless scheduling and meeting management for 250+ coaches and 10,000+ students across the Smart Career Management Center (Smart CMC) platform.
- Designed and executed the Placement Cycle module in 6 weeks using Lumen and React, adding configuration-driven rendering and validation for scalable, client-specific solutions.
- Spearheaded SOC 2 and ISO 27001 compliance programs, coordinating a 6-member cross-functional team across IT, Admin, HR, and Governance to secure both certifications in 6 weeks, then helped maintain both for two consecutive years with zero non-conformities; drafted security questionnaire and RFP responses for 35+ clients.
- Led infrastructure migration from EC2 to ECS using AWS Copilot and Docker, containerizing frontend and backend apps across US and UK regions; authored GitHub Actions for environment validation and managed ECS, RDS, S3, SQS/SNS, and CodePipeline for deployment and monitoring.
- Integrated New Relic and Zenduty for error tracking and performance alerts; monitored US and UK production clusters with AWS CloudWatch, ECS monitoring, and AWS Copilot, fine-tuning auto-scaling to boost up-time and decrease infrastructure costs by 5%.
- Led a team of 4+ developers to revamp the Smart CMC Employer platform, launching modules such as Job Author, BestMatch, and ResumeBooks with React and Lumen, elevating platform experience for 5,000+ employers.
- Managed Candidate and Admin SSO integrations (SAML 2.0, Shibboleth), making key decisions, coordinating teams, and ensuring uninterrupted access; also coordinated Admin API integration with OpenAPI specs for clients.

Senior Software Engineer, VMock - Gurugram, India

Jan 2021 – Aug 2021

- Managed requirements and a team of 2 developers for a new Smart CMC client, coding and deploying key features with React and Lumen within 6 weeks to achieve an on-time, client-specific launch.
- Worked on both frontend and backend foundations for Knowah, an online school platform supporting remote education during COVID-19; over 12 weeks, created reusable React components aligned with the design system, introduced TypeScript for increased type safety, and mentored a junior engineer before the project was discontinued.
- Mentored 5+ new hires annually, expediting onboarding and elevating team code quality; performed in-depth code reviews for peers and junior developers, assessing 500+ pull requests on GitHub to uphold best practices and maintainable standards.

Software Engineer, VMock - Gurugram, India

Jun 2017 – Jan 2021

- Optimized the build process of Smart CMC's frontend applications by configuring and enhancing Webpack; applied code splitting, tree shaking, caching strategies, bundle analysis, and lazy loading to reduce build times by 20% and decrease initial bundle size by 15%.
- Improved the UI/UX of the Employer Relations platform in Smart CMC by refining modules such as Jobs, Events, Interviews, Student Management, and more; fixed 500+ bugs pre-launch, enabling a smooth rollout for two major clients.
- Built the UI from scratch for Candidate-side modules (Appointments, Events, Interviews) in the Smart CMC platform, delivering a production-ready experience within an 8-week deadline.
- Redesigned Aspire's UI (LinkedIn Feedback module) and built 5+ analytics panels in Laravel to track engagement, adoption, and key metrics, giving the internal team clear visibility into user behavior.
- Fixed 350+ UI/UX issues within 2 months of joining the Aspire module using React, contributing significantly to a successful enterprise client launch.

Education

Delhi Technological University, Delhi, India
B.Tech, Computer Science (80.6%)

Aug 2013 – May 2017

Guru Harkrishan Public School, Sri Ganganagar, India
Senior Secondary (CBSE), Science (94.6%)

Apr 2011 – Mar 2013