

Shikhar Saxena

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SUMMARY

Software Engineer with full-stack expertise, skilled in building scalable web apps and distributed systems. Experienced in backend development, cloud-native architectures, DevOps pipelines, and modern frontend frameworks. Passionate about creating performant, user-focused products from end to end.

EDUCATION

Stevens Institute of Technology <i>Master of Science in Computer Science</i>	Hoboken, NJ Sept. 2023 – May 2025
VIT University <i>Bachelor of Technology in Computer Science and Engineering</i>	Vellore, India Jul. 2019 – May 2023

EXPERIENCE

Full-Stack Developer <i>Systems Engineering Research Center</i>	Hoboken, NJ Jul. 2024 – Dec. 2024
<ul style="list-style-type: none">Engineered and optimized full-stack modules using MERN stack and PostgreSQL, reducing API latency by 30%, improving data consistency, and enabling real-time dashboard sync.Developed and maintained 30+ AWS Lambda functions for authentication, email (SES), file processing, and reporting workflows, cutting infra overhead and deployment time by ~50%.Enhanced backend reporting with optimized SQL queries and PDF/CSV export pipelines, reducing query time by 3x and eliminating 70% of manual reporting effort.Built internal tools in Zoho Creator (10+ forms/views/reports) integrated with AWS (Cognito, Lambda, S3) to automate onboarding and data workflows for 1,000+ users with 98% email success.	




Web Application Engineering Intern <i>Cessini Technology Pvt Ltd.</i>	India Jan. 2022 – May 2022
<ul style="list-style-type: none">Developed secure Node.js APIs with JWT authentication, reducing auth-related bugs by ~40%, and integrated Redis caching to lower DB reads by 30% and stabilize response times under 300ms.Built responsive React.js frontend interfaces, improving cross-browser compatibility and reducing UI load times, enhancing desktop and mobile usability.Implemented WebSocket-based real-time communication across chat and collaboration modules, boosting sync reliability and cutting message lag by ~50%.	

Software Development Intern <i>PsycheX (Pre-incubated VIT Startup, now inactive)</i>	India Aug. 2021 – Oct 2021
<ul style="list-style-type: none">Built a responsive frontend using Next.js and Framer Motion, improving engagement by 40% and reducing load times to under 1.2s; integrated Firebase Auth with a Node.js backend to support 500+ sessions with 60% fewer auth errors.Leveraged Firestore for real-time data sync and configured NGINX as a reverse proxy, enhancing API reliability and reducing latency by ~35% across endpoints.	

SKILLS

Languages: JavaScript, TypeScript, Python, C++, Java
Frontend: React, Next.js, HTML/CSS, Tailwind, Redux, Bootstrap
Backend: Node.js, Express, Django, REST APIs, GraphQL, WebSockets, Prisma, Zod
Databases: MongoDB, PostgreSQL, MySQL, DynamoDB, Redis
Cloud & DevOps: AWS (EC2, Lambda, RDS, S3, Cognito, CloudFront, SES, SageMaker, Amplify, SQS), Docker, Kubernetes, Terraform, GitHub Actions, NGINX, Cloudflare R2, GCP (App Engine, Compute Engine)
Tools: Git, Postman, Jenkins, Firebase, Jira, NPM, Excel
Core CS Concepts: Object-Oriented Programming (OOP), Data Structures & Algorithms, System Design, Agile/Scrum

PROJECTS

CareerSync - AI-Powered Career Toolkit <i>Next.js, TypeScript, Shadcn UI, PostgreSQL, Inngest, Gemini API</i> 
<ul style="list-style-type: none">Engineered a full-stack career platform featuring AI-driven resume builder, mock interviews, and personalized insights using Gemini API and Inngest workflows.
LMS Platform- Scalable Full-Stack Learning App <i>Next.js, Node.js, AWS, DynamoDB, Docker, Stripe</i> 
<ul style="list-style-type: none">Architected an enterprise-grade LMS with dynamic course pages, Clerk auth, Stripe billing, and AWS deployment using Lambda, S3, and CloudFront.
React Apps Deployment Platform <i>React, Node.js, TypeScript, AWS SDK, Redis, Cloudflare R2</i> 
<ul style="list-style-type: none">Automated deployment of React apps from GitHub by designing backend services with AWS SDK, Redis queues, and Cloudflare R2 for asset storage.