Shubham Sangle

Software Development Engineer III

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Software engineer with 5 years of experience in backend development, system design, and end-to-end delivery. Leads engineering teams, scales production systems, and builds AI-assisted development workflows.

Experience

Lodha Group Nov 2023 - Present

Senior Software Engineer, Backend

- Owned end-to-end backend delivery for the Lodha application and shared Bellevie platform capabilities; led 5 engineers, owned 12 microservices, and built 4 from scratch.

- Modernised notifications with SQS, Lambda, EventBridge, SES, and FCM/APNS: 60M+ notifications per month, with peaks of 200,000 per minute.

- Built OAuth 2.0-based, device-bound authentication with server-side session invalidation and remote logout. Database optimisation doubled read/write throughput.

- Introduced AI-assisted workflows, feature flags, and deployment automation using AWS CDK and GitHub Actions. Mentored 2 engineers to promotion and independent service ownership.

Infosys Aug 2021 - May 2023

Digital Specialist Engineer, MEAN Stack

- Built Node.js APIs and Angular user-profile functionality for Citi Bank, integrating with enterprise backend systems serving millions of users.

- Containerised and deployed microservices to private OpenShift cloud; configured resource requests, limits, and autoscaling. Reached 85% automated test coverage.

SkillEdge Nov 2020 - Jul 2021

Developer & Security Engineer Intern

- Developed LMS APIs for student accounts and coursework. Built custom WordPress hooks and plugins for web/Android student authentication without data migration.

Selected projects

System Design Playground - A live architecture-learning platform with 12 challenges, a visual editor, deterministic scoring, AI reviews, and persistent workspaces. TypeScript, Angular, Node.js, SQLite. playground.shubhamsangle.com

APK Radar - Android feature discovery and release-comparison prototype. Built staged agent workflows, obfuscated endpoint extraction, deterministic evidence validation, and HTML reporting. Python, Claude Code, jadx.

SSH File Explorer - Open-source terminal tool for remote directory browsing and downloads in one SSH/SFTP session. Node.js. GitHub repository

Agent Tool Discovery - Open-source prototype for on-demand tool discovery, dynamic schema loading, and bounded execution. JavaScript, OpenAI SDK, Exa. GitHub repository

Core expertise

Backend engineering | Node.js | TypeScript | MongoDB | SQLite | Microservices | Event-driven systems | AWS | Docker | CI/CD | Authentication | Agent workflows | Mentoring | Stakeholder collaboration

Education & writing

Bachelor of Technology. Author of How I Hacked University and My College Site, published on Medium.