

AKSHAY KALAPGAR

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Career Highlights:

- Architected distributed microservices on AWS (Lambda, S3, EC2) scaled onboarding to 100k+ with 35% higher opt-in rates.
- Built real-time data pipelines using GraphQL, Twilio to power SMS engagement, increasing module completion by 28%.
- Led cross-functional sprint initiatives, orchestrating teams of 5-7 engineers and QAs to boost development velocity.
- Mentored interns and junior engineers fostering shared code ownership and improving feature delivery reliability.

Summary:

Full-Stack Software Engineer with 3+ years of experience crafting scalable, real-time applications across healthcare, e-commerce & edtech. Skilled in Next.js, JavaScript/TypeScript, React, Node.js, and AWS. Passionate about building production-grade apps. I thrive in fast-paced environments with high ownership, optimizing performance & shipping features rapidly.

Core Competencies:

Distributed Systems · Microservices · Real-time Data Pipelines · System Design · CI/CD · Cloud Infrastructure · Scalable Architecture · Frontend Optimization · API Integrations · Cross-Functional Collaboration · Agile/Scrum

Education:

Master of Science in Computer Science @ Clark University, Worcester, MA GPA 3.8 May 2025
Bachelor of Engineering in Information Technology @ University of Mumbai GPA 3.6 June 2021

Technical Skills:

Languages: JavaScript, TypeScript, Python, Java, C#, SQL, C++
Frontend: Next.js, React.js, React Native, Vue.js, Angular, HTML5, CSS3, SASS, Material UI, Redux, Bootstrap
Backend: Node.js, Django, Spring Boot, REST APIs, GraphQL, Firebase
Tools & Testing: Jest, Cypress, Playwright, Git, Figma, Postman, Jira, PostgreSQL (Drizzle ORM)
Cloud/DevOps: AWS (Lambda, S3, EC2), Docker, GitHub Actions, CI/CD

Work Experience:

Full Stack Developer @ Climb Together; San Francisco, United States. May 2025 – Present

- Drove architecture decisions for a distributed onboarding system using **Next.js**, **Clerk**, and **Twilio Verify**, scaling to 100K+ users with a 35% increase in verified opt-ins.
- Built **real-time data pipelines** to drive SMS nudges and behavior analytics, increasing feature re-engagement by 28%.
- Led architectural reviews to enforce **modular design**, **code ownership**, and **performance benchmarks** across the apps.
- Collaborated with product & design teams to drive accessibility and UI/UX improvements, reducing bounce rate by 40%.
- Drove migration to **serverless backend (AWS Lambda) & PostgreSQL (Drizzle ORM)**, reducing cold start latency by 50%.

Software Engineer Intern @ UMass Chan Medical School; Boston, United States May 2024 – January 2025

- Designed and led implementation of Factorbook 2.0 using **React**, **Next.js** and **GraphQL** to enhance accessibility, performance improved FCP by 40%.
- Integrated real-time dashboards with **Prometheus** to monitor distributed job queues and system health across all envs.
- Implemented 500+ test cases (unit + integration) with **Jest** and **Playwright**, maintaining 98%+ test coverage & stability.
- Facilitated sprints to align backend and frontend teams; led daily standups and retros for a 6-person agile pod.
- Contributed to design & optimization of **data-heavy visualizations**, supporting exploration and genomic analysis.

Full Stack Engineer @ Capgemini; Mumbai, India August 2021 - August 2023

- Built 10+ scalable microservices in **Java**, **Spring Boot** for BMW's global platform powering 200K+ users with 99.9% uptime and 55% performance gains.
- Engineered e-commerce modules with **React**, **Redux**, and **Webpack**, decreasing page load time by 50%.
- Migrated legacy monolith to **Vue.js** architecture, improving performance by 40% and delivering a responsive system.
- Owned CI/CD pipelines with **Jenkins** and **Docker**, automating deployments and reducing manual bottlenecks by 70%.
- Mentored 4 junior developers across two agile squads and conducted peer code reviews to improve velocity.

Software Engineer @ tag8; Mumbai, India August 2020 - August 2021

- Integrated **Redis** caching and **Elasticsearch** with **Django** backend to reduce DB query latency by 60% and support real-time dashboard updates.
- Boosted customer satisfaction by 25% through UI/UX redesign and optimization of high-traffic user flows.

Software Engineer Intern @ KPMG; Mumbai, India July 2020 - December 2020

- Created 30+ feature enhancements to the in-house CRM using Java.
- Contributing to distributed applications architecture & ensuring compliance with internal data handling.

Professional Certifications:

AWS Certified Developer Associate (2024) , AWS Certified Cloud Practitioner , IBM Applied AI , IBM Data Science , Open Source Software Development, Linux and Git , Google Cloud, Game development in Unity with C#

Projects:

AI-Powered UI CHATBOT : Built an OpenAI-powered chatbot UI with real-time edge functions; via serverless GraphQL.
Clark Marketplace - Designed and launched a peer-to-peer marketplace app used by 300+ students at Clark University.