

# AKSHAY KALAPGAR

774-696-9534 | [akalapgar@clarku.edu](mailto:akalapgar@clarku.edu) | [akshaykalapgar.com](http://akshaykalapgar.com) | [linkedin.com/in/akshaykalapgar](https://linkedin.com/in/akshaykalapgar) | [GitHub](https://github.com) | MA

## Summary:

3+ years of experience building scalable distributed systems across healthcare, automotive, and fintech sectors using React, Next.js, Java, Spring Boot, and AWS. Skilled in CI/CD, microservices, and DevOps practices

## Education:

### Master of Science in Computer Science

Clark University, Worcester, MA

May 2025

GPA 3.8

**Coursework** : Software Engineering, Cloud Computing, DevOps, Design of Algorithms, Software Design and Architecture, Software Testing & Quality Assurance, Usability Engineering, Data Analysis, CAPSTONE.

### Bachelor of Engineering in Information Technology

University of Mumbai

June 2021

GPA 3.6

## Relevant Skills:

**Technical Skills** : TypeScript, Next.js, ReactJS, JavaScript, Angular, Java, HTML, Data Structures, CSS, Amazon Web Services, Spring Boot, REST APIs, NodeJS, Playwright, Azure, Python, Postman, JIRA, C#, Design Patterns, Firebase, CI/CD, Kafka, React Native, Redux, MongoDB, PostgreSQL, GitHub, Testing, SQL, Agile SCRUM, C, C++, Kubernetes.

**Cloud & Dev Ops (AWS Certified)** : EC2, S3, Lambda, DynamoDB, RDS, API Gateway, CloudFront, CloudFormation, IAM, SNS, SQS, CodePipeline, CodeBuild. Jest, Testing Library, GitHub Actions, Observability.

**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](#).

## Work Experience:

### Software Engineer Intern

UMass Chan Medical School; Boston, United States

May 2024 – January 2025

- Architected, modernized and redesigned [Factorbook 2.0](#) using Next.js, TypeScript, Material UI and SASS improved performance, scalability, user experience across the bitbucket platform.
- Led an end-to-end front-end revamp with responsive web development, collaborating with UI/UX to ensure accessibility and pixel-perfect designs aligned with HTML5 and WCAG standards.
- Integrated GraphQL for smarter data fetching, cut API response time 55%, aligned with SDLC best practices and improved efficiency. Used MySQL for the Database along with Graph QL.
- Built real-time, interactive visualizations using VISX, used jQuery. Wrote 500 Unit test ensuring regression.
- Worked closely with cross-functional teams via Jira, practicing Agile methodology and clean design patterns to ship features rapidly and reliably. Delivered Acceptance Criteria.
- Collaborated directly on FIGMA designs, delivered clean, pixel-perfect UIs.
- Delivered fully responsive, mobile-friendly application using React Native accessibility, user adaptation.

### Full Stack Engineer

Capgemini; Mumbai, India

November 2021 - August 2023

- Developed scalable web services within a distributed system architecture for BMW's global post-sales platform, ensuring high availability and low latency across regions using ReactJS, Angular and Java.
- Built scalable SPAs with Redux, Bootstrap, and Webpack, improving load times and rendering performance across devices while following the software development life cycle (SDLC).
- Integrated CI/CD pipelines using Jenkins, improving reliability and reducing deployment time by 50%.
- Wrote 700+ unit tests to ensure reliable functionality across user flows and backend processes.
- Resolved critical bugs, analysed logs using Kibana, collaborated with QA and DevOps for fixes.
- Wrote modular Redux-based logic for state management, improving maintainability and testability.

### Software Engineer

tag8; Mumbai, India

February 2021 - November 2021

- Designed and deployed Spring Boot-based microservices to modularize business logic, reducing response time by 95% and enabling independent scaling and deployment. Led 3 interns.
- Redesigned frontend in Vue.js and backend in Django, improving user experience and responsiveness.

### 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.

## Projects:

[AI-Powered UI CHATBOT](#) - Tech Stack: Next.js, Supabase, OpenAI API, LangChain, Vercel, Edge Functions.