AKSHAY KALAPGAR

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Education:

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

Relevant Skills:

Technical Skills : TypeScript, NEXTJS, ReactJS, JavaScript, Angular, Java, HTML, Data Structures, CSS, Amazon Web Services, Spring Boot, REST APIs, NodeJS, Playwright, Microsoft Office Suite, Azure, Python, MUI, Postman, JIRA, C#, Design Patterns, GitHub, Excel, Testing, SQL, Agile SCRUM, C, C++, Kubernetes.

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

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

Professional Certifications : AWS Certified Developer Associate, 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 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.
- Introduced GraphQL for smarter data fetching, cut API response time 55%, aligned with **SDLC** best practices and improved efficiency.
- Built real-time, interactive visualizations using VISX.
- Contributed to a secure, compliant platform for researchers handling sensitive genetic data, applying knowledge of compliance protocols and best practices.
- Worked closely with cross-functional teams via Jira, practicing Agile methodology and clean design patterns to ship features rapidly and reliably..
- Collaborated directly on FIGMA designs, delivered clean, pixel-perfect UIs.
- Delivered fully responsive, mobile-friendly UI - improved accessibility, user adaptation.

Full Stack Engineer
Capgemini; Mumbai, India   November 2021 - August 2023
- Developed and maintained core features for BMW's post-sales customer service web portal.
- Built scalable SPAs with Redux, Bootstrap, and Webpack, improving load times and rendering performance across devices while following the software development life cycle (SDLC).
- Optimized core algorithms, enhanced Jenkins CI/CD pipelines achieved 50% faster build time.
- 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
- Built RESTful APIs using Spring Boot for microservices, improved response time 95%
- Led 3 interns, cut processing time by 70%, Redesigned responsive frontend using Vue.js using standard design patterns Git-based version control practices to more scalable SaaS platform.

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 and ensuring compliance with internal data handling standards

Software Engineer Intern
JP Morgan Chase & Co; Mumbai, India   February 2020 - June 2020
- Leveraged Python for data cleaning, preprocessing, applied machine learning algorithms.