

AKSHAY KALAPGAR

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Education:

Master of Science in Computer Science

Clark University, Worcester, MA

May 2025

GPA 3.8

Bachelor of Engineering in Information Technology

University of Mumbai

June 2021

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, GIT, 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 and led the complete redesign of Factorbook 2.0, modernizing the platform with Next.js, TypeScript, and Material UI, significantly enhancing performance, scalability, and usability.
- Owned the end-to-end UI development, driving 300+ commits and 120K+ lines of code, demonstrating technical leadership, initiative, and strong collaboration cross-functional teams.
- Integrated GraphQL for efficient data fetching, reducing API response time & efficiency by 55%.
- Developed complex, real-time data visualizations with VISX, providing researchers with a seamless experience in exploring genetic factors and datasets, boosting engagement by 400%.
- Led performance optimizations and rigorous code reviews, ensuring best practices in scalability, maintainability, and developer experience which led to seamless user interactions across devices.
- Partnered with UI designers to ensure pixel perfect design consistency, incorporating feedback.
- Implemented a fully responsive, mobile-friendly design, enhancing accessibility and adaptation.

Full Stack Engineer

Capgemini; Mumbai, India

November 2021 - August 2023

- Built Single Page Applications (SPAs) and PWA using ReactJS, JAVA and JavaScript with backward compatibility by NodeJS, Oracle and Postgres SQL. Streamlined Docker for the team.
- Optimized critical algorithms, enhanced Jenkins pipeline which led to 50% faster build time.
- Wrote 300+ unit tests to verify functionality of user stories & back-end processing. Leveraged AWS for deployment and maintenance. Actively participated in troubleshooting kibana and bug fixing.

Software Engineer

tag8; Mumbai, India

February 2021 - November 2021

- Developed RESTful APIs using Spring Boot between microservices, resulting 65% improvement.
- Led a team of 3 interns, reducing processing time by 70%. Utilized Vue.js for responsive frontend.

Software Engineer Intern

KPMG; Mumbai, India

July 2020 - December 2020

- Created 30+ feature enhancements to the inhouse CRM using JAVA skills.
- Strategically performed client side validation using JavaScript gaining client satisfaction of 99%.

Software Engineer Intern

JP Morgan Chase & Co; Mumbai, India

February 2020 - June 2020

- Utilized Tableau & Power BI to create interactive dashboards, visualizing complex financial data.
- Leveraged Python for data cleaning, preprocessing, and applying machine learning algorithms.

Related Projects:

Computer Science Career Advancement Support for CS Undergrad Students. August 2023 – Jan 2024

- Tech Stack: Django, Postgres. Connecting students with experienced alumni for career guidance.

Clark University Marketplace - Technology Stack: React Native and Firebase August 2024 – Jan 2025

- A platform for buying and selling within the university community. Featuring real-time chat, secure authentication, and product listings. Smooth user experience with navigation & responsive design.