

AKSHAY KALAPGAR

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Education:

Master of Science in Computer Science

Clark University, Worcester, MA

June 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.

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 - Current

- Architected and developed Factorbook2.0 using Next.js, TypeScript, and Material UI, enhancing the platform's performance. Led the contributions with over 300 commits and 120,000 lines of production code, demonstrating leadership and ownership in building & optimizing application.
- Integrated GraphQL for efficient data querying, reducing API response times by 55%.
- Built complex, interactive data visualizations graphs using VISX for real-time analytics, providing researchers with a seamless experience in exploring genetic factors and datasets.
- Partnered with UI/UX designers to ensure design consistency, increased engagement by 60%.
- Implemented responsive design using media queries, ensuring the website is fully compatible with mobile phones and tablets, improving accessibility and user experience across devices.

Full Stack Engineer

Capgemini; Mumbai, India

November 2021 - August 2023

- Optimized critical algorithms, enhanced Jenkins pipeline which led to 50% faster build time.
- Built Single Page Applications (SPAs) and PWA using ReactJS, JAVA and JavaScript with backward compatibility provided by NodeJS, Oracle and Postgres SQL. Streamlined Docker.
- 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 25% improvement.
- Led a team of 3 interns, reducing processing time by 30% & enhancing with Spring Security.

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%.

Intern

JP Morgan Chase & Co; Mumbai, India

February 2020 - June 2020

- Utilized Tableau 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 at Clark University

Technology Stack: Python (Django), Postgres, HTML CSS JS, Docker, JIRA – Clark University

- Fostered a community, connecting students with experienced alumni for career guidance.
- Streamlined processes, reducing manual effort by 80%.