

# MUSKAAN SHAIKH

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## EDUCATION

**Master of Science, Computer Science** | University at Albany May 2024 | Albany, NY  
GPA: 3.92 / 4, **Key Courses:** Software Engineering, Data Mining, Algorithms and Data Structures

**Bachelor of Engineering, Information Technology** | University of Mumbai Oct 2020 | Mumbai, India  
GPA: 3.88 / 4, **Key Course:** Internet Programming, Database Administration, Project Management

## SKILLS

**Programming Languages** Javascript, Typescript, HTML, CSS, Python, GraphQL  
**Libraries & Frameworks** ReactJS, NextJS, AngularJS, NodeJS, React Native, TailwindCSS, MaterialUI, OpenAI, Jest  
**Tools & Platforms** Git, Docker, Figma, Postman, Selenium, PostgreSQL, MongoDB, Cognito, S3, EC2, JIRA

## EXPERIENCE

**Graduate Assistant (Javascript Developer & Teaching Assistant)**, University at Albany Mar 2023 - May 2024

- Led the software engineering lab in developing 5+ projects using JavaScript frameworks like React, Angular, and Node.
- Transformed review process by engineering an automated application processing system, slashing review time by 90% through an algorithmic extraction and clear UI presentation of critical applicant details.
- Achieved a 70% increase in API response efficiency with a GraphQL microservice to optimize data fetching and caching.
- Drafted and graded software engineering assignments for web development lab sessions on MERN stack.
- Conducted lab sessions, guiding over 100 graduate students to enhance their practical skills in modern web technologies.

**Software Engineer**, Solvitute Pty. Ltd. Jan 2021 - Aug 2022

- Architected an enrollment platform which reduced form development time by 80% through JSON-driven specifications.
- Optimized application performance by employing lazy loading, conditional rendering, and code splitting techniques, resulting in a 70% reduction in application load time.
- Designed RESTful APIs using OpenAPI Specification (Swagger) for over 5 microservices across 2 projects.
- Curated comprehensive Jest test cases to ensure robust API functionality and reliability.
- Performed quality assurance tests, achieving 100% cross-browser compatibility and mobile responsiveness.
- Established a design system improving UI consistency and code maintainability among a team of over 5 members.
- Facilitated Agile practices, leading sprint planning and retrospectives in JIRA to deliver 10+ user stories per sprint.

**Independent React Developer**, Arham Labs May 2022 - July 2022

- Automated employee onboarding by integrating Google SSO into a React platform, reducing the setup time by 100%.
- Upgraded legacy codebase with Redux and modern CSS frameworks to revitalize a non-functional fitness applications.
- Translated Figma designs into dynamic React and Material UI components for over 2 projects.

## PROJECTS

**LEAPs:** An AI-partner system for seamless LMS and GenAI interface integration Jan 2024 - May 2024

- Devised CABRA (Common Agent Request Broker Architecture) in a NodeJS-based microservice, integrating the OpenAI API to enhance educational environments with advanced Generative AI capabilities.
- Developed a real-time chat application using WebScket within an educational platform, enhancing user engagement metrics by 30% and streamlining user interaction with the AI-partner system.

**KB Student Dashboard:** An analytics dashboard to track student progress and analyze word usage Aug 2023 - Dec 2023

- Bolstered user engagement by 50% in an educational tool with progress visualizations using a responsive ReactJS dashboard.
- Built a Python server integrated with spaCy for precise text analysis and Uabnlutils for robust key phrase extraction.

**DocXtract:** Service that converts handwritten text from document images into digital text Jan 2023 - May 2023

- Implemented a mobile app using React Native and Native Wind to view available forms and upload manually filled responses.
- Created an administrative web app using ReactJS and Tailwind CSS for organizations to view and manage responses.
- Engineered an algorithm to convert handwritten text into digital format, ensuring 95% data accuracy.

## AWARDS

- Outstanding Masters' Capstone Award** May 2024  
Awarded by College of Nanotechnology, Science, and Engineering at UAAlbany for LEAPs project
- Certificate of Excellence** Oct 2020  
Awarded by Thadomal Shahani Engineering College for securing the first rank in IT department