# MUSKAAN SHAIKH

+1(518) 334-9146 ◇ Albany, NY ◇ muskaan.mysa@gmail.com ◇ muskaanshaikh.com
linkedin.com/in/shaikh-muskaan ◇ github.com/muskaan-shaikh

## EDUCATION

**Master of Science**, **Computer Science** | University at Albany — May 2024 | Albany, NY
**GPA:** 3.92 / 4, **Recognition:** Outstanding Masters's Capstone Award

**Bachelor of Engineering**, **Information Technology** | Mumbai University — Oct 2020 | Mumbai, India
**GPA:** 9.71 / 10, **Recognition:** Certificate of Excellence for securing first rank

## SKILLS

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|---|---|
| **Programming Languages** | Javascript, Typescript, HTML, CSS, Python, GraphQL |
| **Libraries & Frameworks** | ReactJS, NextJS, NodeJS, ExpressJS, React Native, Tailwind CSS, Material UI, Open AI, Jest |
| **Tools & Platforms** | Git, Docker, Figma, VSCode, Postman, Selenium, PostgreSQL, MongoDB, Cognito, S3, EC2, JIRA |

## EXPERIENCE

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

- Architected an enrollment platform using ReactJS for dynamic form development using JSON-driven specifications, achieving an 80% reduction in the required time for developing new forms.
- 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 test to ensure cross browser compatibility and mobile responsiveness.
- Established a design system to maintain UI consistency, code maintainability, and enhance user experience.
- Facilitated Agile practices through sprint planning in JIRA to transform creative ideas into impactful digital experiences.

**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 90%.
- Migrated legacy codebase to modern frontend practices, by incorporating Redux global state management and upgrading CSS frameworks to rejuvenate a non-functional fitness application.

**Independent React Developer**, Early Startup — Aug 2021 - Oct 2021

- Translated Figma designs into dynamic React and Material UI components to create a template for a food ordering platform.
- Collaborated with clients and designers to define project requirements, scope, and technical specifications.

## 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 an intuitive chatbot within an educational platform, 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 in an educational tool with progress visualizations using a responsive ReactJS dashboard.
- Incorporated GraphQL middleware for efficient data retrieval from MongoDB.
- Built a Python server integrated with spaCy for precise text analysis and Uabnlputils 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 text, ensuring efficiency and data accuracy.

## EXTRA-CURRICULAR ACTIVITIES

- **Teaching Assistant**, University at Albany — Aug 2023 - May 2024
  Designed and conducted web development lab sessions on MERN stack. Facilitated dedicated sessions to provide technical expertise to graduate students on software development projects .
- **Student Assistant**, University at Albany — Mar 2023 - Aug 2023
  Led the software engineering lab in constructing an admission application processing system to automate decision making in the academics sector. Crafted a Python-based ETL algorithm to extract and translate course grades from scanned transcripts, leading to an optimised academic review processes.