

Rabah Ali Shah

+92 309 2596609 - [Portfolio](#) - muhammadrabah.ali46@gmail.com - linkedin.com/in/rabahalishah - github.com/rabahalishah

TECHNICAL SKILLS

Programming Languages: Javascript, Typescript, Python.

Libraries and Tools: React.js, Next.js, React-Context, React Query, Material-UI, Tailwind CSS, Bootstrap, HTML, CSS, Node.js, Express.js, Django Rest Framework, MongoDB, Mongoose, PostgreSQL, JWT, Git, GitHub Actions, Bitbucket Pipelines Docker, Virtualization, Jenkins, Mixpanel, Linux.

WORK EXPERIENCE

Associate Software Engineer

Xylexa Inc. — Islamabad, Pakistan

June 2024 - Present

- Revamped existing codebase and built new modules in a monorepo, improving maintainability by ~30%.
- Designed and launched a reporting module from scratch, cutting manual reporting time by ~40%.
- Engineered an annotations feature (React + DRF), supporting 100+ study-specific records daily.
- Automated CI/CD with Bitbucket pipelines, reducing deployment time from 30 min to less than 5 min.
- Enforced strict TypeScript typing, reducing runtime bugs by ~50% and speeding up debugging.
- Integrated React Query for data caching, improving load times by ~35%.
- Optimized study filter search, reducing latency by ~50% and enhancing UX.

Software Engineer Intern

Xylexa Inc. — Islamabad, Pakistan

June 2023 - September 2023

- Contributed to XYCAD V3 by developing responsive UI components in React.js.
- Improved UI accessibility & functionality, learning full code flow and design systems.
- Developed the Xylexa Portal (project & team management tool) from wireframes to development.
- Built responsive UI using React, Tailwind CSS, TypeScript, enhancing usability across devices.
- Collaborated closely with cross-functional teams for seamless backend integration.

PROJECTS

- **Quick Word Definition – Chrome Extension**, Built a Chrome extension for instant word meanings on right-click; published with 21 active users, local caching, clean popup UI. [Try it!](#)
- **useSecureLocalStorageHook – NPM Package**, Developed a TypeScript React hook for encrypted local storage; enforced strong typing, 201 weekly downloads. [Try it!](#)
- **Chat Sphere – Real-Time Chat App (MERN Stack)**, Built a real-time chat app with Socket.io, JWT auth, Zustand state, Tailwind UI. [GitHub](#)
- **NatoursAPI – RESTful Booking API (Node.js, Express, MongoDB)**, Developed secure REST APIs for Tour bookings with JWT, roles, payments; flexible NoSQL models. [GitHub!](#)

OPEN SOURCE CONTRIBUTIONS

- **Joomla/Manual**, Improved footer UI for better UX; collaborated with the community on best-practice pull requests. [GitHub!](#)
- **Plone/Volto**, Enhanced developer docs and user guides; worked with the documentation team to ensure clarity and accuracy. [GitHub!](#)

EDUCATION

National University of Science and Technology, (NUST)

H-13, Islamabad, Pakistan

Bachelor of Engineering

June 2020 - June 2024

EXTRACURRICULAR ACTIVITIES AND ACHIEVEMENTS

- **Section Leader CIP Stanford**, Selected among 700 from 2,000+ applicants, one of only 69 from Pakistan, to lead and mentor peers in Python.
- **DevOps Fellow, Bytewise**, Selected for competitive fellowship from 2,300+ applicants, specializing in large-scale systems and automation.