

Shalmalee Shenolikar

Buffalo, NY · shenolik@buffalo.edu · 7166178068 · LinkedIn · Portfolio

EXPERIENCE

Roche Molecular Systems

Santa Clara, CA

Software Engineer Intern

May 2023 - Aug 2023

- Orchestrated secure patient data access for 300+ clinicians through *FHIR RESTful APIs*.
- Led the development of a real-time communication system connecting labs, doctors, and patients, optimizing information flow and boosting deployment efficiency by 60%.
- Inspired the team to adopt AWS serverless tech like *Kinesis, S3, RDS, Step Functions, and API Gateway* for streamlined lab data processing, real-time report generation and high-performance data integration.
- Executed robust *Selenium, Mocha, Chai* testing, reducing errors by 95% for enhanced system reliability.

X-Labs (University at Buffalo)

Buffalo, NY

Research Assistant

Sept 2022 - May 2023

- Crafted *MaterialUI, ReactJS* and *React Native* powered mobile and web apps for curated research paper collections with graded assignments, boosting accessibility of educational resources.
- Integrated Neo4j APIs to establish robust data storage framework, while leveraging Firebase to improve authentication security by 40%, ensuring data integrity and user trust.
- Spearheaded library-integrated collection sharing platform, advancing 80% surge in user engagement.

Rocket Software

Pune, India

Full Stack Developer

Oct 2020 - July 2022

- Constructed scalable *NodeJS REST APIs* using *ReactJS, NodeJS, Elasticsearch, Kafka, and AWS*, for features like notification, filters, dashboard, tables, and automated data processing with 99% accuracy.
- Developed React/Redux UI applications by 30% with MaterialUI components.
- Implemented Jest for testing, achieving a 90% reduction in critical issues for feature robustness.
- Automated EDI message processing in Rocket's EDX6, reducing manual processes by 20% and collaborated with a team of 22 and business analysts, providing effective leadership and mentorship.

Rocket Software

Pune, India

Software Engineer Intern

May 2019 - Sept 2020

- Developed a secure, cloud-ready Android app for efficient farming operations, leveraging *Java, SpringBoot, AngularJS, Ionic, Zuul, MySQL, and Eureka* server, and implemented real-time messaging.
- Championed creation of a revolutionary *Low Code Application Builder* with drag-and-drop components and customizable features, utilizing *React, Spring Boot, and Java* for fast and easy app development.

PROJECTS

- PharmaChain Rx (UB)** Decentralized pharmaceutical supply chain solution development using Solidity and Blockchain, ensuring transparency and trust for stakeholders. *Solidity, JavaScript, Blockchain*
- ScreenTx Interface (Citi)** Engineered a sanctions screening interface, using *Spring Boot, Java, JSP, Maven, JDBC, Tomcat, and AngularJS*, to reduce false positives and integrate into existing infrastructure.
- InfoBot (UB)** Built NLP interface using BERT for contextual bot replies and neural search with dense vectors. Integrated chitchat dataset, achieving a 99% conversational response rate accuracy.
- Health 360** A groundbreaking healthcare platform with *React.js, Node.js, Flutter, Vite, MongoDB, Docker, Kubernetes* for seamless clinical trial management, tailored questionnaires, targeted user groups, notifications, and machine learning analytics, accessible via a user-friendly mobile/web app.
- FraudGuard Pro** A Streamlit-based credit card fraud detection system with 80% accuracy, reducing false positives by 25% through advanced ML models. *Python, ML, Matplotlib, Scikit-learn, Pandas, NumPy*

EDUCATION

University at Buffalo, The State University of New York

Buffalo, NY

Master of Science, Computer Science

Aug 2022 - Jan 2024

Savitribai Phule Pune University

Pune, India

Bachelor of Technology, Computer Science

Aug 2016 - May 2020

SKILLS

| | |
|-------------------------|--|
| Programming Languages: | JavaScript, TypeScript, Java, Python, HTML, CSS, SQL |
| Tools and Frameworks: | React, NodeJS, ExpressJS, Mocha, Chai, MaterialUI, Kafka, Redux, Angular, Elasticsearch, AWS Lambda, Terraform, Selenium |
| Data Management: | MySQL, Postgres, MongoDB, Neo4j, DynamoDB |
| Cloud Platforms: | AWS, GCP, Microsoft Azure |
| Containerization: | Kubernetes, Docker, Container Security |
| Software Methodologies: | Agile, JIRA, Design Patterns, CI/CD, Jenkins, Scrum, Kanban, Microservices, RESTful APIs, GraphQL, TDD, Confluence |
| Version Control: | Git, GitHub, GitHub Actions, Gitlab, Bitbucket |