

# Swati Saxena

+1 909-402-8032 | [swati.calstate@gmail.com](mailto:swati.calstate@gmail.com) | [linkedin.com/in/swati17](https://www.linkedin.com/in/swati17) | [github.com/swati2904](https://github.com/swati2904) | [swatiprofile.vercel.app](https://swatiprofile.vercel.app)

## EDUCATION

### California State University, San Bernardino

San Bernardino, CA

*Masters of Science in Computer Science*

*May 2025*

GPA: 3.79/4.0

### Lovely Professional University

Punjab, INDIA

*Bachelor of Technology in Computer Science*

*Jul 2020*

GPA: 3.16/4.0

## TECHNICAL SKILLS

**Programming Languages:** Javascript, Java, Typescript, HTML, CSS, Python, C++, MySQL

**Courses:** Data Structure & Algorithms, Databases, Software Engineering, Operating Systems, AI, ML

**Frameworks & Libraries:** ReactJs, Redux, NodeJs, GraphQL, MaterialUI, Docker, Kubernetes, NextJs, MongoDB

**Tools:** Git, VS Code, Figma, Azure, AWS, GCP, CI/CD, Unix, Linux

## EXPERIENCE

### Software Engineer Research Intern

Jun 2024 – Aug 2024

*University of California (NSF AI Institute)*

*Santa Barbara*

- Identified and addressed security vulnerabilities in AI chat plugins across 2,000+ websites, including improving validation mechanisms for 1,500 websites and securing sensitive data exposed by 500+ plugins.
- Implemented automated vulnerability detection, improving model efficiency by 20% and enhancing data security.
- Developed and improved Python-based web scraping tools, using JavaScript, HTML, and CSS, increasing data extraction speed by 25%.

### Software Engineer II

Apr 2023 – Jul 2023

*OPTX India Private Limited*

*Chennai, India*

- Collaborated in a 10-member team to improve enterprise operations, increasing user engagement by 15% and reducing dispatch errors by 20% through enhanced data access and automated event tracking.
- Redesigned UI features in production, improving site performance by 25% and increasing user retention and productivity by 30%.
- Designed and implemented micro frontends and single-page applications using ReactJs, GraphQL, HTML, CSS, Antd UI framework, Azure, and GitHub, ensuring scalability and maintainability.

### Software Engineer II

Aug 2020 – Apr 2023

*Snapbizz Cloudtech Private Limited*

*Bengaluru, India*

- Collaborated with cross-functional teams to revamp the UI of the Snaporder product, enhancing operational efficiency by 15% and achieving a Lighthouse performance score of 85+.
- Developed features in production for a retailer portal, such as inventory management, stock transfers, and invoice tracking, improving workflow efficiency and reducing the time spent on manual tasks by 20%.
- Built a dashboard with multiple charts and features like customization, time-based data filtering, and options to download and share reports, using ReactJs, NodeJs, Chart.js, Java, and Material-UI.

## PROJECTS

### Safe Shortener | HTML, CSS, NextJs, Docker, Kubernetes, MongoDB

Nov 2024 – Dec 2024

- Built a URL shortener with enhanced security, featuring password protection, CAPTCHA, link expiry, and access control with geolocation restrictions.
- Designed the application to provide users with seamless link management, allowing them to create, customize, and share shortened URLs with ease, improving accessibility and user experience.

### Real Code Sync | WebSocket, ReactJS, HTML, CSS, NodeJS

Jan 2024 – Feb 2024

- Developed a real-time collaborative code editor, allowing multiple users to work in shared rooms with synchronized code updates, deployed on Netlify.
- Added room management features like unique ID generation, ID sharing, and live updates, supporting use cases such as live interviews, peer learning, and group coding.