

# Swati Saxena

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## 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:** Java, Javascript, Go, HTML/CSS, Python, C++, MySQL

**Frameworks & Libraries:** Java EE, Spring framework, Restful API, ReactJs, NodeJs, Docker, Kubernetes, MongoDB

**Tools:** CI/CD (Jenkins), Docker, Kubernetes, SOAP, JUnit, Postman, Git, JIRA, SonarQube, AWS, Azure

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

## 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 protection using AWS.
- Developed and improved Python-based web scraping tools ML models, 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 | *Golang, NextJs, Docker, Kubernetes, MongoDB, HTML, CSS,*

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.