Swati Saxena

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EDUCATION

California State University, San Bernardino   San Bernardino, CA
Masters of Science in Computer Science   *May. 2025*
GPA: 3.81/4.0

Lovely Professional University   Punjab, INDIA
Bachelor of Technology in Computer Science   *Jul 2020*
GPA: 3.16/4.0

TECHNICAL SKILLS

Programming Languages: Javascript, Python, Typescript, HTML, CSS, C, C++, MySQL, PostgreSQL, AWS
Courses: Data Structure & Algorithms, Databases, Software Engineering, Operating Systems, AI, ML
Frameworks & Libraries: React.js, Vue.js, Node.jS, Express, Material-UI, MongoDB
Developer Tools: Git, VS Code, Figma, Azure DevOps, Unix, Linux platform

EXPERIENCE

Software Engineer Intern   Jun 2024 – Aug 2024
UC Santa Barbara   *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.
- Enhanced system performance and security by integrating automated vulnerability detection, increasing model efficiency by 20% and ensuring stronger protection against data leaks.
- Built and optimized Python-based web scraping tools, along with using Javascript, HTML, CSS for web integration, and security tools like Burp Suite increasing data extraction speed by 25%.

Software Engineer   Apr 2023 – July 2023
OPTX India Private Limited   *Chennai, India*
- Spearheaded a 10-member team to revolutionize enterprise operations, driving a 15% increase in user engagement and a 20% reduction in dispatch errors through seamless data access and automated event tracking..
- Innovatively redesigned UI features, boosting site performance by 25% and enhancing user experience, resulting in a 30% increase in user retention and productivity.
- Used React.js, HTML, CSS, and Material-UI to redesign UI, boosting performance by 25%.

Software Engineer   Nov 2020 – Apr 2023
Snapbizz Cloudtech Private Limited   *Bengaluru, India*
- Led cross-functional collaboration to architect an automated retailer dashboard, enhancing operational efficiency and fostering synergy between development and business units, yielding a 15% improvement in performance and communication.
- Designed a comprehensive retailer portal dashboard, incorporating inventory management, stock transfers, and purchase invoice tracking functionalities, resulting in a 20% decrease in errors and enhanced data accuracy.
- Developed a feature using ReactJS, JavaScript, Node.js, MongoDB, Rest API, MySQL, HTML, and CSS to create an intuitive retailer dashboard. Prototyped for user feedback, leading to a 40% increase in user satisfaction.

PROJECTS

REAL-TIME CODE SYNC: A Collaboration Tool | *WebSocket, NodeJS, ReactJS*   Jan 2024 – Feb 2024
- Developed a robust real-time code synchronization tool for seamless collaboration among multiple users, enabling collective work on code projects in real-time.
- Spearheaded the implementation of essential room management functionalities, including the creation of unique room IDs, convenient room ID copying, and smooth room exit procedures.

BLOGCONNECTOR: A Social Application | *React, Redux, CSS, NodeJS, MongoDB,*   Aug 2023 – Sep 2023
- Developed Blog Connector, a secure social application enabling user sign-up and sign-in with robust JWT-based authentication.
- Implemented user profile customization, allowing users to add their experiences and projects, and explore other bloggers' profiles to interact with blog posts by liking, disliking, and commenting.