

Hrishita Sharma

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Professional Summary

Software Engineer experienced in full-stack development, UI design, and data-driven web applications. Skilled in Java, PHP, JavaScript, React, and automation frameworks with strong problem-solving and collaboration skills.

Experience

Software Engineer - Research Assistant, UbiLab - University of Waterloo – ON, CA January 2025 – Present

- Rebuilding the React.js interface for the Canadian Centre on Substance Use and Addiction (CCSA) reporting platform, improving frontend performance and user accessibility for national stakeholders.
- Collaborating with University of Toronto and York University teams to implement ETL data pipelines, LLM-based data processing, and interactive data visualization dashboards.
- Developing backend features for the ONCAT course comparison system using PHP, Laravel, and JavaScript, enabling smoother transfer credit evaluation between Ontario institutions.
- Design ideation with accessibility compliant frontend interface to display substance use trends, enabling policymakers and researchers to analyze patterns by demographics.

Associate Software Development Engineer, Bajaj Finserv Health Ltd. – Pune, India July 2023 – July 2024

- Designed and deployed microservices architecture with Spring Boot and REST APIs, improving scalability and reducing unused API calls by 40%.
- Collaborated with the design team to revamp key React.js modules, improving component reusability and reducing page load time by 30%.
- Built and maintained a production monitoring system (PRODMON) for real-time detection of backend outages and critical journeys.
- Automated backend testing pipelines via custom curl-generation framework, reducing sprint delivery time by 30%.
- Awarded the Stellar Squad Award for technical leadership and delivery excellence.

Technology Intern, Bajaj Finserv Health Ltd. – Pune, India July 2022 – July 2023

- Designed internal reporting dashboards using JavaScript, TypeScript, and Elastic Search APIs to analyze API performance and Lighthouse scores.
- Worked with Reactjs, Nodejs and Material UI to design and develop UI interfaces.
- Conducted Lighthouse audits and implemented optimizations for web performance metrics.
- Worked on in-house API Automation project migration to an efficient framework, implemented using Java and REST Assured to improve testing accuracy and API performance.
- Received special recognition award for working on major feature deliveries.

Education

University of Waterloo, Master of Engineering - Electrical and Computer Engineering September 2024 – December 2025

- **Coursework:** Algorithms, Machine Learning, Database Systems, Statistics, Software Engineering, ML Projects
- **Involvement: CleanSlate - WIE Hackathon 2024:** A project to promote inclusivity in workplaces by using a machine learning algorithm to rank companies based on employee reviews, user interface built with Reactjs and Material UI.

Chitkara University, Bachelor of Engineering - Computer Science | GPA: 9.49/10 September 2019 – May 2023

- **Involvement: Association Computing Machinery Student Chapter:** Web Development and UX/UI Design Head of Club

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, PHP, C++ , SQL

Frameworks and Technologies: React.js, Next.js, Laravel, Spring Boot, Node.js, REST Assured, Selenium, TailwindCSS

Databases: MongoDB, MySQL, PostgreSQL

Other: UX Design and Research, Elastic Search, Docker, Git, CI/CD, Data Visualization