Deepanshu Sharma

(206) 334 0213 | d.deepanshusharma12@gmail.com | https://www.linkedin.com/in/deepanshusharma12

EDUCATION

Master's of Science, Computer Science, Seattle University, Seattle, USA — Jan 2023 – Dec 2024

***Relevant Coursework**: Distributed Systems, Cloud Computing, Parallel Computing, Artificial Intelligence, Machine Learning.*

B.Tech, Computer Science, Panjab University, India — Aug 2018 – Jul 2022

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, C++, TypeScript, Rust, Go, C#.

Frontend Technologies: React.js, Redux, Tailwind CSS, Mantine, HTML, CSS, jQuery.

Backend Technologies: Spring Boot, Node.js, Express.js, REST APIs, Socket.IO, JWT, Bcrypt, Paypal API, Stripe API, Spring Security, Fast API.

Databases: PostgreSQL, MySQL, MongoDB, Redis, SQL, Hibernate, NoSQL.

Cloud, DevOps & Tools: AWS, Azure, Docker, Kubernetes, CI/CD, Git, Maven, JUnit, Mockito, GitHub Copilot, Axios, Kafka, Data Structures, WebSockets (Socket.IO), event-driven architecture, design patterns, SDLC.

PROFESSIONAL EXPERIENCE AND INTERNSHIPS

Software Engineer, MindSight Mentors, USA — Mar 2025 – Present

Donation Portal [Live Link: https://www.donate.mindsightmentors.org]

Event Management Portal [Live Link: https://www.events.mindsightmentors.org/GuestEventBrowsing]

- Led end-to-end development of a donor management portal, architecting **a React (Mantine) frontend and Spring Boot, TypeScript and PostgreSQL** backend
- Used **AI and CoPilot** to optimize the reusable code component by improving productivity by **30%**.
- **Integrated PayPal payment gateway** to support both one-time and recurring donations, securely processing **2000+ transactions** and **$5,000+** in the first month.
- Automated real-time donation tracking and campaign management with **REST APIs** to reduce manual monitoring by **60%.**
- Launched secure authentication and role-based access control for admin/donor's using **JWT** and **Spring Security** and eliminating the requirement for manual auditing resulting in reduction of 30% operational overhead.
- Architected an event portal using **Java Spring Boot** and **PostgreSQL**, enabling **1000+ users** to manage events.
- Applied Test-Driven Development (TDD**)** using **JUnit** and **Mockito**, achieving over 90% code coverage and improving system reliability.
- Responsible for resolving 20% of the bugs from the backlog, improving the customer satisfaction scores by 30%.
- Optimized DB queries to reduce response times by 25%, improving service availability by 2%.
- Collaborated with product manager and cross-functional teams for design requirements to meet the evolving business needs.

Software Development Engineer, Invit Solutions — Jul 2022 – Dec 2022

- **E-Commerce Website Launch:** Built and deployed e-commerce website for a customer. This allowed the customer to sell 1500+ products online from physical stores that drove a 40% increase in product sales.
  - Gathered requirements from 10+ vendors selling products to customers through the e-commerce website.
  - Incorporated **Node JS** and **Express JS** to develop seamless data retrieval and updates for 10k+ customers.
  - Reduced DB load by 35% and improved page load speed using **Redis**-based cache for high-traffic product listings.
  - Leveraged **MySQL** for database design and management, storing 1 million records.
- **Payment Gateway Integration:** Embedded the customer's website with **Stripe** payment gateway, allowing the customers to make international transactions. This resulted in increasing the customer base and generate 10% more sales.

Software Engineer Intern, Invit Solutions — May 2021 – Jul 2021

- Partnered with 8 engineers to design and deliver an internal communication system for 40+ employees during pre-launch to streamline feedback collection.
- Programmed an interactive **React/Tailwind CSS** frontend, connected to a **Node.js/Socket.IO** backend to handle user sessions and message history.
- Simulated 1M+ messages to validate chat system performance, ensuring fault tolerance under production-level traffic.

PROJECTS

Code Cutter [Refactoring Tool] — Jan 2024 – Mar 2024

- Developed a **Python-based tool using AST parsing and Jaccard similarity**, automating the detection of code smells like long methods and duplication, reducing manual cleanup by 60%.
- Reduced code review time by 20% by automatically identifying and refactoring 95% of duplicate functions and **implementing GUI-based visualization with PySimpleGUI** for code smell analysis
- Enhanced parser robustness by redesigning AST generation to handle nested scopes and recursive logic, informed by research on **ANTLR**, **Esprima**, and **Python's** scoping rules.