

# HARSH RAJ SINGH



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LinkedIn



GitHub

Seeking roles as Software Development Engineer 1 or Associate Software Engineer in the field of Computer Science and Engineering, targeting positions that allow for growth and development in technical expertise and leadership skills.

## PROFILE SUMMARY

- ❖ Possess over 2 years of experience in full stack web development, specialising in the MERN (MongoDB, Express.js, React.js, Node.js) stack.
- ❖ Skilled in designing and developing responsive web applications, implementing scalable RESTful APIs, and optimising database performance.
- ❖ Proven ability to build dynamic, real-time applications with secure authentication and seamless user experiences.
- ❖ Experienced in collaborating with cross-functional teams to design, develop, and deploy robust, high-quality software solutions in Agile environments.
- ❖ Proficient in a wide array of modern programming languages, frameworks, and tools, with a strong focus on delivering performant, maintainable, and scalable applications.
- ❖ Passionate about problem-solving and continuous learning, ensuring the delivery of effective, innovative solutions tailored to user needs.
- ❖ Strong collaborator in Agile environments, dedicated to delivering high-quality software solutions.
- ❖ Proven ability to collaborate effectively in cross-functional teams and a passion for delivering high-quality software solutions.

## WORK EXPERIENCE

**PricewaterhouseCoopers (PwC), Bangalore**  
**August 22 – October 24**

### Growth Path:

Associate Level 2: August 22 – May'24

Associate Level 3: June 24 – October 24

### Key Responsibilities:

- ❖ **Designed, developed, and maintained web applications** using the MERN stack, resulting in a 20% increase in application performance and scalability, contributing to client satisfaction.
- ❖ **Developed RESTful APIs** with Express.js and Node.js, enabling seamless front-end to back-end communication, which reduced development time for new features by 30%.
- ❖ **Managed and optimised MongoDB databases**, implementing data validation and advanced security measures that reduced data access issues by 40% and improved system reliability.
- ❖ **Integrated real-time communication features** using Socket.io, enhancing user engagement and driving a 25% increase in user interaction across web applications.
- ❖ **Implemented secure authentication and authorization** mechanisms using JWT, improving data protection and reducing security vulnerabilities by 50%.
- ❖ **Utilized Git and GitHub** for version control and collaboration in Agile environments, contributing to faster deployment cycles, reducing the time to market by 15%.
- ❖ **Led code optimization efforts** through reviews and refactoring, improving performance and maintainability, which decreased application load times by 10%.
- ❖ **Collaborated with cross-functional teams** to translate user requirements into functional applications, achieving a 95% client approval rate on deliverables.
- ❖ **Conducted comprehensive unit testing and debugging**, ensuring a 99% reduction in production bugs, significantly improving product quality.

## CORE COMPETENCIES

RESTful API Development  
Agile Methodology  
Quality Assurance  
UI/UX Designing  
Full Stack Development  
Debugging & Troubleshooting  
Project Management

## SOFT SKILLS

Communicator  
Positive Thinker  
Team Player  
Analytical  
Collaborator

## TECHNICAL SKILLS

- ❖ Programming Languages: Java, SQL, C, C++, HTML, CSS, JavaScript, Python
- ❖ Frameworks/Libraries: React, Node.js, Express.js, Bootstrap, Tailwind CSS
- ❖ Databases: MongoDB, MySQL Workbench, SQL Server
- ❖ Tools: Git, VS Code, Eclipse, Postman, Docker, Redis

## CERTIFICATIONS

- ❖ Coding Ninjas - Backend - Full Stack Web Development, Dec'23
- ❖ Coding Ninjas - Frontend - Full Stack Web Development, July'23
- ❖ Coding Ninjas - Data Structure & Algorithms - Full Stack Web Development, June'23
- ❖ CLF - C02- AWS Certified Cloud Practitioner Foundational, Dec'22

## Achivements

- Professional Achievements
  - ❖ Recognized multiple times for delivering value in the company multiple times.
- Academic Achievements
  - ❖ Acted as a Treasurer in TEDx conducted in SITP.
  - ❖ Recognised Core member of Indian Society for Technical Education.

## PROJECTS

### Social Media Backend REST-API

Tools - Node.js, Express.js, MongoDB

- ❖ Developed a RESTful API architecture using Node.js and Express.js, facilitating efficient routing and data management.
- ❖ Implemented secure user authentication and authorization, including OTP-based password reset for enhanced security.
- ❖ Designed and built CRUD functionalities for posts, comments, and likes, ensuring owner-based access control.
- ❖ Engineered a comprehensive friendship system, managing friend requests and user relationships effectively.

### ChatterUp - Real-Time Chat Application

Tools — Node.js, Express.js, Socket.io, MongoDB, Mongoose

- ❖ Developed a real-time chat application using Socket.io for WebSocket communication, enabling seamless, bidirectional messaging between users.
- ❖ Implemented user-friendly chat UI with responsive design, featuring onboarding processes, real-time notifications, and user status indicators.
- ❖ Ensured data persistence and retrieval by securely storing chat messages and user data in MongoDB, enhancing reliability and user experience.
- ❖ Incorporated modern development practices, including ES6 modules for code organization and modularity, to improve maintainability and collaboration.

### BuyBusy - E-Commerce Website

Tools — React.js, Redux Toolkit, Firebase, React Router, React Toastify

- ❖ Developed a full-featured e-commerce website with React.js and Redux Toolkit, enabling users to create accounts, manage their cart, and place orders.
- ❖ Implemented state management using Redux Toolkit for efficient handling of product addition, removal, and quantity adjustments in the cart.
- ❖ Integrated Firebase for real-time database storage, ensuring persistence of user cart and order data.
- ❖ Utilized React Router for seamless navigation and React Toastify for user-friendly notifications.

## Education

- ❖ B.Tech. (Computer Science & Engineering), Silicon Institute of Technology, Bhuvneshwar, 2022
- ❖ 12th, VBCV, Jamshedpur, 2017
- ❖ 10th, DAV Patel Nagar, Jamshedpur, 2015

## PERSONAL DETAILS

- ❖ Date of Birth: 3rd December, 1998
- ❖ Languages Known: English & Hindi
- ❖ Address: Jamshedpur, Jharkhand