

## HARSHIT PENTA

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### SUMMARY:

Full Stack Software Developer with 4 years of experience and a master's degree in computer science. Proficient in Agile/Scrum methodology and adept at implementing various stages of the Software Development Life Cycle. Seeking opportunities as a Web Developer to collaborate with cross-functional teams and stakeholders and leverage expertise in front-end and back-end technologies to create dynamic and user-friendly applications

### TECHNICAL SKILLS:

- Languages: Java [Proficient], JavaScript (ES6+), TypeScript, HTML5, Python, C, C++
- Front-End: Vue 3, React, Redux, jQuery, AJAX, Bootstrap
- Back-End: Node.js, Express.js, Spring MVC, Spring Boot, .Net
- Database: SQL, MySQL, MongoDB, NoSQL, PostgreSQL, Oracle
- Testing: Junit, Jest, Unit Testing, Integration Testing, End to End Testing
- DevOps & CI/CD: Docker, Kubernetes, Git, GitLab CI/CD
- Other: Jira, Swagger, Postman, REST APIs, Agile/Scrum, SDLC

### EDUCATION

#### M.S., Computer Science, California State University (3.7 GPA)

Dec 2024

Coursework: Advanced Data Structures and Algorithms, Database Design, Machine Learning, Data Mining, Advanced Web Engineering, Computer System Architecture, Advanced Computer Networks, Software Engineering, Algorithm Design, Operating Systems, and Information Technology

### PROFESSIONAL EXPERIENCE

#### ARCS Research Associate | NASA JPL | Research: A Framework for Smart Textile Large Scale Consumer Research

August 2023 – Present

- Built a React Native based framework with Jest and React Testing Library for a Mobile app covering Unit, Integration, Regression, and E2E testing.
- Established a DevOps-oriented CI/CD pipeline for automated testing, debugging, validation, and application security checks, fostering an agile development environment that reduced manual troubleshooting efforts and increased development efficiency by 20%

#### Graduate Assistant | California State University

November 2022 – Present

- Developed a comprehensive scheduling application using React JS and SQL Server to automate staff schedules, class timetables, and meeting management, reducing manual scheduling efforts

#### Software Developer | Shoponomik, Los Angeles, USA

May 2023 – August 2023

- Involved in end-to-end project management, from requirement gathering, JIRA board and sprint planning to deploying a containerized application using Docker and Kubernetes in Microsoft Azure
- Developed and optimized scalable web applications using Java with the Spring Boot framework, designing low-latency REST APIs with Azure SQL Server to enhance data efficiency
- Designed and implemented an interactive data visualization dashboard using Tableau to track and analyze key user engagement metrics. Implemented front-end features using HTML5, CSS, and Vue 3, ensuring responsive design and improved user experience

#### Digital Specialist Engineer | Infosys, Bangalore, India

November 2020 – August 2022

- Implemented intricate queries in NoSQL database (Cassandra) to efficiently link multiple attributes, resulting in a 40% reduction in latency
- Developed and tested third-party APIs using Node.js ensuring seamless integration and reliability. Leveraged Swagger to automatically generate OpenAPI technical documentation and integrated RESTful API for managing frontend modules, payment processing, and real-time functionalities
- Part of 50+ code reviews; Wrote 300+ unit tests to verify the functionality of user interfaces, SOAP and REST web services and relational DB interactions while working as Software engineer at the Financial Services Application Development unit
- Utilized Docker and Kubernetes to orchestrate and automate the deployment of microservices in the Skava fintech e-commerce platform implementing containerization strategies and Kubernetes clusters to efficiently manage resources and ensure scalability as demand fluctuates. Played a pivotal role in modernizing deployment processes, reducing downtime, and enhancing overall system resilience

#### Programmer Analyst Trainee | Cognizant, Chennai, India

July 2020 - September 2020

- Performed backend development of a MERN tech stack based e-commerce app by designing database schemas, integrating payment gateways as a part of the training project; Implemented rich UI/UX by creating 10+ new features based on user stories using React.js and Figma based design

### PROJECTS

#### Diary App | | Technologies: Vue 3, Nuxt, TypeScript, SCSS, Firebase

- Developed a responsive Diary Application using Vue 3 and Nuxt, implementing state management with Vue and seamless navigation with Vue Router
- Implemented Test Driven Development to ensure cross browser compatibility, responsive design, enhancing user-friendly interfaces and interactions with the DOM

### CERTIFICATONS & ACHIEVEMENTS

- Authored and published 2 research papers (Paper-1, Paper-2) while working as an Intern at **General Electric**
- Leadership Role: Hosted the IEEE PESTSE - 2018 International Conference on Power and Energy Systems at Bangalore, India
- Leadership Role: California State University **Campus Ambassador** – 2024
- **NASA ARCS Associate Research Fellow** – Publishing paper on Comprehensive Testing Techniques for React Native Applications
- Diploma in Full Stack Development - Certified by Excelr