

HARSHIT PENTA

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TECHNICAL SKILLS:

- **Languages:** Java [Proficient], JavaScript (ES6+), TypeScript, HTML, Python, C, C++ C#, Ruby on Rails, Golang (Go)
- **Full Stack:** React JS, Angular JS, Redux, jQuery, AJAX, Bootstrap, Node.js, Express.js, Spring MVC, Spring Boot, .NET, Apache Tomcat, Nginx
- **Databases & Tools:** RDBMS (Oracle Database, SQL Server, MySQL, PostgreSQL), NoSQL (Redis, MongoDB), SQL Developer
- **Testing and DevOps:** JUnit, Jest, Test Driven Development, Docker, Kubernetes, Github actions, GitLab CI/CD
- **Other:** Jira, Scrum, Swagger, Postman, Bitbucket, REST APIs, Agile/Scrum, SDLC, Eclipse, NetBeans, VS Code, Kafka, GraphQL

EDUCATION:

Master of Science in Computer Science | California State University - 3.7 GPA

Dec 2024

Courses: 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, Information Technology

PROFESSIONAL EXPERIENCE:

Operating Systems Specialist | Los Angeles Unified School District

Aug 2023 – Dec 2024

- Designed and optimized ETL systems leveraging cloud technologies (AWS, Azure, Google Cloud) and implemented VMware and vCenter-based virtualization solutions across Linux and Windows server environments. Enhanced IT infrastructure scalability resulting in a 25% reduction in hardware costs
- Developed and recommended technical specifications for complex system integrations, leveraging cloud platforms (PaaS, IaaS, SaaS) to streamline data processing workflows and boost system performance by 40%

NASA ARCS Research Associate | NASA JPL | [Research](#)

Aug 2023 – Dec 2024

- Enhanced the reliability of a React Native mobile application by developing a comprehensive testing suite using Jest and React Testing Library for unit, integration, regression, and E2E tests, which improved app stability and maintainability.
- 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

Nov 2022 – Dec 2024

- Developed a scheduling application with React.js and SQL Server to automate staff schedules, timetables, and meeting management. This allows real-time monitoring of the teacher-student ratio and tracks staff attendance hours, significantly reducing manual scheduling efforts.

Software Developer | Shoponomik, Los Angeles, USA

May 2023 – Aug 2023

- Implemented automated workflows in JIRA to streamline the deployment of a containerized application on Microsoft Azure using Kubernetes. Built a scalable Java and Spring Boot web application with low-latency RESTful APIs connected to Azure SQL Server.
- 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

Nov 2020 – Aug 2022

- Implemented nested queries in NoSQL database (Cassandra) to efficiently link multiple attributes, resulting in a 40% reduction in latency
- Tested third-party APIs using Node.js ensuring seamless integration. Leveraged Swagger to automatically generate API documentation and integrated RESTful API for handling frontend modules, payment processing, and real-time functionalities
- Conducted code reviews and wrote over 200 unit and integration tests to verify the functionality of user interfaces, SOAP web services and relational DB interactions while working at the Financial Services Application Development unit
- Contributed to the deployment of microservices for Skava's fintech e-commerce platform by integrating Docker files into CI/CD pipelines, enhancing containerization for scalability. Supported efforts to modernize deployment processes, resulting in reduced downtime.

Programmer Analyst Trainee | Cognizant, Chennai, India

July 2020 - Sept 2020

- Performed backend development of a MERN tech stack-based e-commerce app by designing database schemas and integrating payment gateways; Designed a rich UI/UX by developing new features based on user stories, using Figma for prototyping.

CERTIFICATIONS AND ACHIEVEMENTS:

- Diploma in Full Stack Development - Certified by ExcelR Solutions
- NASA ARCS Associate Research Fellow – Publishing paper on Comprehensive Testing Techniques for React Native Applications
- 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