**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

# PROFESSIONAL EXPERIENCE

**NASA ARCS Research Associate ||**[**A Framework for Smart Textile Large Scale Consumer Research**](https://arcs.center/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 and validation fostering an agile development environment leading to reduction in manual effort in troubleshooting and 20% increase in development efficiency

**California State University, Northridge, CA, USA: Graduate Assistant November 2022 – Present**

• Creating an internal application to monitor staff schedules, coordinate internal meetings, integrate attendance records from Excel, and facilitate customized coding workshops for students to enhance their problem-solving abilities and coding best practices

**Shoponomik, Los Angeles, USA: Software Developer 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
* Utilized Spring framework in Java to design and implement low-latency REST apis with Azure SQL Server as storage systems to facilitate efficient data retrieval and manipulation for scalable web applications
* Implemented modular and testable features on a Magento-based e-commerce platform and integrated payment gateways for a seamless checkout user experience. This kickstarted revenue generation which is expected to increase by 100% in the next 2 months

**Infosys, Bangalore, India: Digital Specialist Engineer 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 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

**Cognizant, Chennai, India: Programmer Analyst Trainee 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

# EDUCATION

**M.S., Computer Science, California State University, Northridge, California (3.8 GPA) May 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

# ACADEMIC PROJECTS

**Diary App || Technologies: React Js, Redux, React Router and Firebase hosting**

* Built a Diary Application using React JS for front-end with Redux for state management, and integrating React Router for seamless navigation
* Implemented Test Driven Development to ensure cross browser compatibility, responsive design, enhancing user-friendly interfaces and interactions with the DOM

# TECHNICAL SKILLSs

* **Programming Languages**: C, C++, Java [Proficient], JavaScript, Python, Typescript, HTML, CSS, Perl, C#, XML, R, Go, rust, kotlin
* **Frameworks and Tools**: Spring, Spring Boot, AngularJS, Vue.js, Django, Webpack, Mocha
* **Full Stack**: JQuery, JSP, AJAX, Swing, Bootstrap, React, Redux, ES6, Babel, Nodejs, Express JS, .Net, Ruby, PHP, JSON, Scrum, SDLC, GraphQL, Flux
* **Database**: SQL, MySQL, SQL Server Management Studio (MS SQL), Mongodb, NoSQL, PostgreSQL, Firebase, Relational Database (Oracle), Redis, S3
* **Testing**: Junit, Selenium, Jest, Scripting, Performance testing, Functional testing, Test automation, Mocha
* **DevOps and CI/CD**: Docker, Kubernetes, Jenkins, Maven, Spark, Hadoop, AWS, Cloud, Azure, Terraform, Ansible, Chef, Puppet, Git, GitLab CI,
* **Other:** OOPs concepts, Linux kernel, ORM framework, MVC, amazon web services, bitbucket, shell script

**CERTIFICATONS & ACHIEVEMENTS**

* Programming, Data Structures and Algorithms using Python - Indian Institute of Technology, Madras - [*Certificate*](https://drive.google.com/file/d/1nch7d7mAsx58JWimZ1k-zQCP0LQqfh7y/view)
* Authored and published 2 research papers ([*Paper-1*,](https://drive.google.com/file/d/1cX328gXMLvUiPPTocyYr8ALQhleGFngE/view) [*Paper-2*)](https://drive.google.com/file/d/1Kb5gt_lMEx9U852rQ-bEWDRbtH-p3cHV/view) 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: CSUN Campus Ambassador – 2024; Leadership Role: **NASA** ARCS Associate Research Fellow