

VANI RUCHIKA PABBA

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EDUCATION

Master of Science in Computer Science

University of Florida, Gainesville, FL.

Jan 2022 – Dec 2023

GPA: 3.7/4

Bachelor of Engineering in Computer Science & Engineering

Maturi Venkata Subba Rao Engineering College, OU, Hyderabad, India.

Aug 2015 – Jun 2019

GPA: 4.0/4

TECHNICAL SKILLS

Programming Languages: Java, C++, C, Python, JavaScript, Typescript, PHP, Ruby, C#.

Web Development Technologies/Libraries: HTML5, CSS3, React JS, Redux, Angular, Express.js, Next.js, Node.js, Nginx, Vue.js, Sass/SCSS, Bootstrap, Material UI, Tailwind CSS, RESTful API design, Spring Boot, Figma(UI/UX), RabbitMQ.

Databases: SQL(MySQL, PostgreSQL), NoSQL(MongoDB, Firebase).

Testing and Automation: Jasmine, Jest, Enzyme, Protractor, Karma, Cypress, Selenium, Postman.

Others: GIT, GitHub, Bitbucket, VS Code, Eclipse, Jenkins (CI/CD), Agile/Scrum, JIRA, Confluence.

WORK EXPERIENCE

Systems Engineer, Infosys Ltd, Hyderabad, India

Feb 2020 – Dec 2021

- Designed and implemented 40+ Angular-based feature elements for a JSON-based drag-and-drop UI Builder and Renderer within Infosys Equinox Studio, a low-code/no-code cloud-native platform.
- Enabled non-technical users to create and render web applications on client and server side without any coding expertise.
- Optimized business value and agility through Spring-boot microservices architecture.
- Collaborated with cross-functional teams to create blueprints enabling 250+ global brand sites to simplify B2C, B2B, and B2X commerce management via drag-and-drop deployment.
- Crafted 15+ reusable UX patterns, reducing project setup time by 40% and facilitating rapid multi-geography and multi-language site updates.
- Designed and implemented REST APIs using Swagger, ensuring seamless component integration.
- Incorporated real-time preview and testing features, boosting development efficiency by 25% and eliminating the need for a staging environment.

Systems Engineer Intern, Infosys Ltd, Mysore, India

Oct 2019 – Jan 2020

- Leveraged the MERN Stack to construct a scalable and responsive full-stack application using Redux for state management. Increased page load speed by 40% and reduced server response time by 50%.
- Enforced CI/CD pipelines using Jenkins to automate build, test, and deployment processes. Reduced build time by 30% through script optimization and parallelization.
- Led a team of 5 in designing and developing capstone project modules. Successfully delivered high-quality code on time, meeting all requirements.

PROJECTS

3D Tee Studio / React, ThreeJS, TailwindCSS, Framer Motion, DALLE AI

- Formulated a website with 3D t-shirt customization feature with color options, logo uploads, and downloadable final designs, resulting in a 70% increase in user interaction.
- Integrated AI-powered logo generation, leading to 60% more efficient and user-friendly logo suggestions.

Twitter Clone Engine | HTML, CSS, JavaScript, Web Server

- Designed and engineered a distributed Twitter-like engine employing the actor model, facilitating user registration, tweeting, subscriptions, and hashtag/user-based tweet searches, resulting in 55% increase in concurrent user capacity.
- Conducted exhaustive system testing, stress-testing the platform with over 8000+ simulated Twitter users, certifying its resilience and scalability, ultimately boosting system reliability by 30%.

Hoopla Ecommerce / Mongo DB, Express.js, Angular, Node.js, NgRx, Material UI, Jasmine, Protractor

- Crafted a high-performance single-page e-commerce application, enabling users to browse products, add them to their carts, complete purchases, and effortlessly access and review past orders.
- Employed NgRx for session state management, leading to 60% reduction in page load times and a 40% increase in overall customer satisfaction.

Classification of Deformation complexities to aid Image Registration, Research Project | C++ , Weka

- Devised a predictive image registration algorithm based on deformation complexities (Key Point Error and Inlier Ratio), cutting image registration costs by 92% compared to existing methods.
- Verified the accuracy of the trained decision-maker through rigorous testing with various classifiers, achieving a robust accuracy rate of 95.7% with the J48 classifier.