VANI RUCHIKA PABBA

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EDUCATION

Master of Science in **Computer Science** **Jan 2022 – Dec 2023**
University of Florida, Gainesville, FL. GPA: 3.7/4
Coursework: Analysis of Algorithms, Advanced Data Structures, Distributed Operating System Principles, Computer Networks, Mathematics for Intelligent Systems, Neural Networks, Machine Learning, Natural Language Processing.

Bachelor of Engineering in **Computer Science & Engineering** **Aug 2015 – Jun 2019**
Maturi Venkata Subba Rao Engineering College, *OU*, Hyderabad, India. GPA: 4.0/4

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python, JavaScript, Typescript, PHP, Erlang.
Web Development Technologies/Libraries: HTML5, CSS3, Sass/SCSS, Bootstrap, Material UI, TailwindCSS, React JS, Redux, Express.js, Next.js, Node.js, Nginx, Vue.js, Angular, RESTful API design, Figma(UI/UX), Webpack, Babel.
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**

- Developed and implemented 40+ Angular-based features to enhance Infosys Equinox Studio, a low-code cloud native experience software. Optimized business value and agility within a 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.
- Created 15+ industry specific reusable UX patterns, reducing project setup time by 40% and facilitating multi-geography and multi-language site updates in minutes.
- Incorporated real-time preview and testing features, boosting development efficiency by 25% and eliminating the requirement for a staging environment.
- Conducted code redesigning and troubleshooting, resulting in a 30% improvement in execution speed and overall system performance.

***Systems Engineer Intern,* Infosys Ltd, Hyderabad, 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 **Jul 2023 – Aug 2023**

- 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 **Aug 2022 – Dec 2022**

- 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 **Dec 2020 – Feb 2020**

- 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++ **Jul 2018 – Apr 2019**

- 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.