Teja Reddy Palle

Missouri, MO |tejareddypalle2000@gmail.com | (314)-220-2642 | linkedin.com/in/palletejareddy/ | github.com/tejareddypalle

Detail-oriented QA Automation Engineer with 3+ years of experience in designing, developing, and executing robust automation frameworks using Selenium, TestNG, and Java. I am skilled in validating APIs, performing functional and regression testing, and integrating tests in CI/CD pipelines. Proficient in identifying performance bottlenecks and ensuring product quality across web and enterprise applications. Recently completed a Master's in Computer Science from Southeast Missouri State University and currently seeking QA/SDET roles with a focus on building reliable, scalable test automation solutions.

EDUCATION

Southeast Missouri State University **Aug 2023 – May 2025**
Master of Science, Applied Computer Science GPA: 3.90
Vignana Bharathi Institute of Technology **Aug 2017 – Jun 2021**
Bachelor of Technology, Electronics and Communication Engineering GPA: 2.78

Relevant Courses: Data Structures and Algorithms, Software Testing and Quality Assurance, Web Technologies, Advanced Java Programming, Database Management Systems, Cloud Computing, Operating Systems, Distributed Systems, System Design (Low level, High level), Computer Networks, Microprocessors and Microcontrollers, Digital Logic Design, Embedded Systems.

SKILLS

Languages/Databases: Java, C, C++, Python, JavaScript, HTML, CSS, SQL(MySQL)
Frameworks/Technologies: Selenium, TestNg, Junit, Maven, Rest Assured, Cucumber(BDD), Agile/Scrum, Page Object Model
Tools & Platforms: Postman, Git, Jenkins, JIRA, Eclipse, IntelliJ, VS Code,
Domain & Enterprise Tools: Guidewire Policy Center(Integration, Rating), Kafka(Payload Validation & Integration Testing), Rating Concepts(Bas Rate, Modifiers, Factors), OOS(Out-of-Sequence), Ansys HFSS
Other Skills: API Testing, UI Testing, Functional & Regression Testing, Test Automation Framework Design, Defect Tracking, Version Control, STLC, SDLC, Cross-Browser Testing.

EXPERIENCE

Southeast Missouri State University **April 2024 - May 2025**
Quality Assurance – Part-time Cape Girardeau, MO

- Automated UI and regression test scripts using **Selenium WebDriver (Java)**, reducing manual testing by 60% and accelerating release cycles through robust test coverage.
- Identified and managed defects using **JIRA**, performed **cross-browser testing** (Chrome, Firefox, Edge), and ensured UI consistency, contributing to platform stability and usability.
- Conducted **REST API testing with Postman**, validated payloads and status codes, and collaborated in **Agile teams** to improve test coverage and maintain detailed test documentation.

Capgemini - India **Sept 2021 – July 2023**
Software Engineer – Senior Software Engineer Hyderabad, India

- **Automated UI** and **regression test cases** using **Selenium WebDriver** with **Java**, implementing **TestNG**, **Page Object Model (POM)**, and **Apache POI** to build scalable test frameworks, reducing manual effort by over 60%.
- **Performed REST API** testing using **Postman** and **REST Assured**, validated policy, billing, and claims endpoints; executed **Kafka message queue testing** for **payload validation**, **event triggers**, and **asynchronous message flow**.
- Conducted extensive **manual testing** including **functional**, **integration**, **GUI**, **regression**, **cross-browser** (Chrome, Firefox, Edge), and **UAT**; validated **Guidewire Policy Center** UI components, **rating logic**, and **OOS transactions**.
- Managed test cycles with **JIRA** and **Q-Test**, executed **SQL** queries for backend data validation, wrote detailed **test cases**, maintained documentation, and actively participated in **Agile/Scrum ceremonies** (standups, sprint planning, retrospectives).
- **Delivered QA demos to clients**, earning **stakeholder recognition** and **appreciation** for quality and clarity; provided mentorship on **test automation strategy**, **defect lifecycle**, and tools including **JIRA**, **Q-Test**, and **Selenium**.

Entrepreneurship Intern -Product Innovation **Aug 2019 – Sept 2020**
Business Analyst & Product Designer Hyderabad, India

- **Designed** and engineered "**KisanMate**," a ground-based pesticide **spraying rover**, applying mechatronics and embedded systems to reduce farmers' chemical exposure and improve field safety.
- Led **prototyping** and **remote-control** system integration using hardware interfacing and robotic control, improving terrain adaptability and targeting accuracy compared to **drone alternatives**.
- Conducted **field research**, applying user research, **data collection**, and **usability testing** techniques to refine the product based on real-world agricultural feedback.
- Delivered **technical presentations** and demonstrated strong stakeholder communication and **problem-solving skills**, earning **recognition** from **ISB faculty** and **TASK Telangana** for **innovation** and **sustainability**.

PROJECT

Student Habit Analyzer **Jan 2024 – May 2024**

- Developed a basic web application using **HTML**, **CSS**, and **JavaScript** to help students manually log and track study sessions.
- Designed a **clean and minimalistic UI** that allowed users to input subject name, start time, and duration of study.
- Implemented **form handling** and **basic input validation** using **JavaScript** to ensure proper data entry.
- Focused on building a **responsive layout** for smooth functionality across different screen sizes and devices.
- Performed **manual testing** to identify and fix layout issues, broken inputs, and ensure **cross-browser compatibility**.
- Tested the application across **Chrome**, **Firefox**, and **Edge** to verify stable and consistent behavior.
- Improved core development skills in **front-end programming** and **QA fundamentals** through hands-on learning and debugging.
- Shared the project on **GitHub** as a learning milestone, showcasing growth in self-initiated coding and practical application of **basic web technologies**.

Bandwidth Enhancement of Microstrip Patch Antenna **Aug 2020 – June 2021**

- Designed and simulated a **dual-band microstrip patch antenna** using **Ansys HFSS**, applying **slot-loaded techniques** to achieve enhanced **bandwidth performance**.
- Achieved **dual resonant frequencies** at **3.48 GHz** and **5.25 GHz**, making the antenna suitable for **WLAN**, **WiMAX**, and **automotive radar** applications.
- Conducted detailed **electromagnetic analysis** including **S11 (return loss)**, **VSWR**, and **radiation patterns** to evaluate and optimize **antenna efficiency**.
- Generated and analyzed **3D radiation plots** to visualize **lobe directions** and **gain characteristics** for both frequency bands.
- Performed **iterative simulation tuning** to refine parameters such as **substrate thickness**, **slot dimensions**, and **patch size**.
- Collaborated with **faculty mentors** on academic **RF research**, applying theoretical knowledge in **practical simulation-driven design**.
- Documented the entire **design process**, **simulation results**, and **conclusions** in a formal **project report** for academic evaluation.
- Gained hands-on experience with **HFSS simulation environment**, **RF design principles**, and **antenna parameter optimization techniques**.

CERTIFICATION & AWARDS

- Technical Entrepreneur - ISB, Hyderabad
- QET & QA Automation Level 1 – Capgemini
- CCNA Routing and Switching – Introduction to Networks
- CCNA Routing and Switching – Routing & Switching Essentials
- API Testing a Real Web Application via Postman – Coursera
- Awarded Certified Star Performer (Rising Star) at Capgemini for exceptional performance and valuable project contributions.