PRANAY DAYANAND

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EXECUTIVE SUMMARY

SDET with experience in UI and API automation Java, JavaScript, Cucumber and Playwright/Selenium. Skilled in building reusable, data-driven test components. Experienced in Database validations and Cloud Technologies, Quick learner focused on quality, scalability, and test reliability.

WORK EXPERIENCE

Cognizant Technology Solutions
Software Development Engineering in Test *Oct 2024 – Present*

- **Centrica Neon QE&A | Energy Utilities & Retail Domain**
- Validating complex workflows across the Energy Portal and **Salesforce** systems by designing and executing UI automation using **Java, Selenium,** and **Cucumber framework**, ensuring accurate customer journeys, billing behavior, and retail operations.
- Creating modular and reusable automation components by applying **page object design**, **data-driven execution**, improving maintainability and long-term scalability of the framework.
- Performing API testing using **REST Assured** and **Postman**, validating request/response structures, business rules, and backend workflow consistency.
- Supporting **CI/CD** execution by integrating automated suites into **Jenkins pipelines**, managing code repositories through **Git/GitHub**, and leveraging **Maven** for dependency management and structured build processes.
- Executing regression cycles across sprints, covering functional, negative, and edge-case scenarios to ensure stable deployments and reduce production defects.
- Leveraging **GenAI tools such as GitHub Copilot and Microsoft Copilot** to accelerate script development, debugging, optimize workflow efficiency resulting reduction of efforts by 30%.

- **Royal Bank of Canada (RBC) | BFS Domain**
- Contributed to building a scalable automation framework using **JavaScript** and **Playwright**, enabling end-to-end UI and API validation using **Playwright Test** for critical retail banking workflows.
- Developed reusable Playwright modules and custom commands enabling data-driven and **CSV-parameterized** execution, resulting in more consistent and reliable automation runs
- Performed performance and load testing using **JMeter**, generating metrics on throughput, latency, and system stability under different traffic conditions.
- Utilized **Azure DevOps** for pipeline execution, code reviews, traceability, and integration of automated suites into continuous delivery cycles by following **Agile Methodologies**.

EDUCATION

REVA UNIVERSITY – Bengaluru *2020 - 24*
Bachelor of Engineering, Computer Science; Cumulative GPA: 9.09/10

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python Fundamentals.
Automation and Testing Tools: Selenium, Playwright, WebdriverIO, Postman, JMeter, Maven.
Frameworks: RestAssured, Cucumber, Mocha, TestNG.
DevOps and CI/CD: Azure DevOps**,** Jenkins, Git & GitHub.
Cloud and Databases: Microsoft Azure, MySQL, MS SQL Server fundamentals.

PROJECTS

- **Full-Stack Application Delivery Automation**
  Java, Selenium, REST Assured, JDBC, Jenkins, Azure.
  - Designed an end-to-end automation workflow simulating real-world application delivery scenarios, from UI testing to API validation and database checks.
  - Built test suites using Selenium, REST Assured, and JDBC, integrating them into **Jenkins pipelines** for continuous execution.
  - Configured deployment and test verification stages through **Azure**, ensuring automated validation across the entire development–deployment lifecycle.

- **Euphoria-FM | Mood-Based Music Recommendation System**
  Python, OpenCV, Streamlit, Media pipe, Keras.
  - Built a real-time facial-emotion detection system that identifies the user's mood and automatically recommends music through YouTube search integration.
  - Built an emotion model using 1200+ expression's image set and achieved around 80% accuracy in detecting emotions.
  - Implemented live video capture and processing using **OpenCV**, **Mediapipe**, and deep-learning models in **Keras** to achieve accurate mood classification.
  - Developed an interactive UI with **Streamlit** and WebRTC components for smooth video streaming and real-time predictions.

- **Tic-Tac-Toe Interactive Web Game**
  HTML/CSS, Bootstrap, JavaScript.
  - Developed a lightweight browser-based Tic-Tac-Toe game with win detection, draw handling, and dynamic state management for smooth gameplay.
  - Implemented event-driven logic using JavaScript, enabling turn switching, board interaction, and automatic result evaluation.
  - Added restart functionality and responsive UI for an improved user experience.

CERTIFICATIONS

- Playwright Automation Testing Fundamentals – Udemy.
- GITHUB Copilot Advanced Program for QEA [201- Intermediate].
- Jenkins: CI/CD Pipelines & Automation – Udemy.
- SOLID Principles of Object-Oriented Design and Architecture – Udemy.