

GOUTHAM NERELLA

Lowell, MA

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 [LinkedIn](#) |  [GitHub](#)

SDET / QA AUTOMATION ENGINEER

Detail-oriented QA Engineer with hands-on experience in functional, integration, system, regression, and data-driven testing across web platforms. Skilled in analyzing requirements, designing detailed test scenarios, writing structured test cases, and validating application behavior through manual, UI, API, and SQL-driven testing. Experienced working in Agile teams, collaborating closely with developers, UX, product owners, and QA leads to ensure full test coverage and high-quality releases. Strong communicator with a passion for problem-solving, root-cause analysis, and improving QA processes.

TECHNICAL SKILLS

- **Testing & QA**
Manual testing, functional testing, integration testing, regression testing, UAT, exploratory testing, cross-browser testing, cross-platform testing, WCAG-aligned accessibility testing (familiar), compatibility testing
- **Automation & Scripting**
Python, shell scripting, basic Selenium WebDriver exposure, API validation using Postman + Python Requests
- **Backend & Database**
PostgreSQL, SQL (DDL/DML/DQL), data validation, log analysis, backend troubleshooting
- **Tools & Platforms**
Git, GitLab, GitHub, Jira, Zephyr (similar), REST APIs, Linux/Unix, Windows, CI/CD basics
- **Soft Skills**
Communication, requirement analysis, collaboration, Agile/Scrum ceremonies, documentation, critical thinking

EXPERIENCE

Automation Engineer

Werfen — Bedford, MA | Jun 2022 – Present (Hybrid)

- Analyzed business requirements, acceptance criteria, and technical specs to understand scope and identify testing needs.
- Created **comprehensive manual test plans, cases, and reproducible test steps** supporting functional, integration, regression, and UI validation.
- Performed cross-browser and UI testing for key workflows; validated layout issues, accessibility alignment, and data accuracy.
- Participated in Agile ceremonies including daily stand-ups, sprint planning, grooming, and retrospectives to ensure testing readiness and alignment.
- Conducted **exploratory testing** to uncover edge-case defects not covered by standard test scenarios.
- Used Python to automate **data validation**, log parsing, and backend QA tasks.
- Performed SQL-based validation using PostgreSQL to confirm backend logic, data correctness, and flow between services.
- Logged, prioritized, and tracked defects using Jira and GitLab; ensured complete evidence including screenshots, logs, and service responses.
- Collaborated with developers, UX designers, and product owners to review requirements for clarity and testability.
- Supported automation engineers by reviewing test scripts and helping build test data and test scenarios.
- Documented QA processes, test steps, regression suites, and validation workflows to improve repeatability and knowledge sharing.

Key Contributions

- ✓ Ensured end-to-end functionality across multiple environments through structured test coverage
- ✓ Improved clarity of test cases and documentation used by both QA and development teams
- ✓ Provided actionable feedback improving UI consistency and report-based output validation

System Administrator / Automation Support Engineer

Tata Consultancy Services — Hyderabad, India | Aug 2018 – Jan 2020

- Performed functional and backend testing for Linux-based systems, validating system output, log data, and service behavior.
- Used Python and Shell scripting to support QA tasks, automate repetitive validations, and generate test data.
- Validated file-based workflows (CSV, JSON, XML) and backend service interactions.
- Worked with cross-functional teams to resolve defects quickly and ensure smooth test execution.
- Participated in Agile meetings and contributed to early requirement discussions.
- Relevant Strengths
 - ✓ File-based workflow testing
 - ✓ Log inspection & data validation
 - ✓ Strong Linux/Unix background for QA tasks

Automation Engineer Intern

QOS Technologies — Bengaluru, India | Mar 2016 – Jul 2016

- Developed automation scripts for system configuration and backend validation.
- Strengthened fundamentals in Linux commands, system behavior, and script debugging.
- Supported QA engineers in validating system output and configuration changes.

EDUCATION

Master of Science in Computer Science

University of Massachusetts Boston | 2020 – 2022

Bachelor of Technology in Electronics & Computer Engineering

ITM University, Gwalior | 2015 – 2019

PROJECTS

Data Analysis & ML Pipeline – NASA Environmental Dataset

Python, SciKit-Learn, Pandas, Plotly

- Extracted real-world NASA POWER datasets via REST API and built a data analysis pipeline.
- Performed K-means and hierarchical clustering with dendrogram visualization to identify optimal data center locations.
- Automated data ingestion and preprocessing using Python scripts.
- Extracted data from NASA APIs and validated data accuracy using SQL and Python scripts.
- Created automated data-processing pipelines and validated end-to-end transformations.

My UMass Co-op – Web Application Development

HTML, CSS, JavaScript, Express, MongoDB

- Tested CRUD REST APIs, UI workflows, and application responsiveness across platforms.
- Used GitHub Actions for CI/CD deployment and environment validation.