FREDDY ROJAS

BACKEND / FULL-STACK SOFTWARE ENGINEER | SDET / QA AUTOMATION ENGINEER
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Portfolio: danielrojasvalda.github.io/gh-portfolio

PROFESSIONAL SUMMARY

Software Engineer with 8+ years of experience across backend development, full-stack applications, QA, and technical systems. Builds Python/Flask APIs and React applications for data-heavy business platforms using PostgreSQL, Docker, AWS RDS, and CI/CD tools. Brings strong skills in API integration, debugging, test automation, performance improvement, and cross-functional delivery.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, PHP, Java, HTML5, CSS3
Frameworks & APIs: Flask, React.js, Spring Boot, SQLAlchemy, RESTful APIs, JSON, CRUD, API Integration
Testing & Quality: Playwright, Postman, API Testing, Regression Testing, Exploratory Testing, Test Cases, Test Matrices, Defect Management, ISTQB
Databases: PostgreSQL, MySQL, Microsoft SQL Server, Oracle, AWS RDS
Cloud, DevOps & Tools: Docker, Git, GitHub, GitLab CI/CD, Harness, Sentry, Linux, SSH Tunneling, Jira, Confluence, Zendesk
Practices: Agile/Scrum, SDLC, CI/CD, Debugging, Root-Cause Analysis, Code Refactoring, Performance Optimization, Cross-Functional Collaboration

PROFESSIONAL EXPERIENCE

Software Developer - Backend & Full-Stack | ZYSC Software / *Tampa, FL* Mar 2025 - Present

- Support clinical revenue, cost, and profitability analysis by developing Python/Flask APIs and React features for a healthcare financial platform.
- Reduced cold-request time by 58% and SQL queries by 36% by removing duplicate calculations, reusing shared results, and simplifying Python/Flask services.
- Reduced Professional and Ancillary initial-load request bursts by consolidating header, stage-card, revenue, cost, and summary data into one REST API bootstrap endpoint per module.
- Improved financial-data accuracy by tracing and fixing mismatches across line, player, module, and total calculations in backend services and React views.
- Expanded product features by building React and TypeScript components for editable tables, financial summaries, scenario modeling, and business workflows.
- Improved release confidence by adding Playwright end-to-end tests for authentication, navigation, API behavior, and revenue-and-cost workflows.
- Maintained secure development access by running Docker environments and connecting to PostgreSQL on AWS RDS through SSH tunnels.

Quality Assurance Analyst | ID.me / *Tampa, FL* Jun 2021 - Mar 2025

- Protected quality across IRS and other client programs by completing 380+ weekly audits and documenting clear, evidence-based results.
- Strengthened fraud controls by identifying and escalating 15+ suspected fraud cases through established security and review processes.
- Accelerated engineering follow-up by reporting reproducible defects in Jira and sharing test evidence during Agile sprint collaboration.
- Improved team knowledge by maintaining investigation notes, quality findings, and support documentation in Confluence and Zendesk.

QA Engineer Cross-Training | ID.me / *Tampa, FL* May 2024 - Jul 2024

- Improved defect discovery by creating test matrices, executing exploratory tests across web, mobile, and browser-extension products, and analyzing logs and reports in Harness and Sentry.

Classroom Monitor, IT Help Desk | Fairfax County Public Schools / *Fairfax, VA* Feb 2021 - Jun 2021

- Supported 25+ teachers and 200+ students each week by resolving classroom technology issues and guiding users through 100+ common tasks.

Software Development Specialist | Banco Fortaleza / *La Paz, Bolivia* Nov 2019 - Aug 2020

- Improved delivery speed by 15% by leading Agile work through GitLab and Maven while developing backend modules with Java, Spring Boot, EJB, PHP, JavaScript, and 4GL.
- Expanded system integration by connecting Ruby on Rails services with existing RESTful applications and banking workflows.
- Reduced implementation risk by translating business needs into maintainable backend changes and coordinating work across technical teams.

Full-Stack Developer | Reds Solutions / *La Paz, Bolivia* Jun 2019 - Jun 2021

- Increased client conversions by 25% and reduced bounce rates by 40% by building and improving responsive websites with JavaScript, HTML5, CSS3, WordPress, and Joomla.
- Delivered custom web solutions by gathering client requirements, building features, testing changes, and supporting production releases.

Network and Communications Admin | Quipus / *La Paz, Bolivia* Apr 2015 - Jul 2019

- Improved LAN reliability and production operations for 800+ units by administering VMware, Hyper-V, DNS, Active Directory, and network services.
- Reduced manual production work by automating repeatable technical tasks and resolving infrastructure issues across business and manufacturing teams.

Backend Software Developer | Colosa Inc. - ProcessMaker / *La Paz, Bolivia* Apr 2013 - Mar 2015

- Achieved 98% endpoint coverage by testing REST APIs with Postman and RESTClient and documenting defects for engineering follow-up.
- Improved platform stability by fixing ProcessMaker 2.x defects and building PHP/MySQL backend features for ProcessMaker 3.
- Reduced regression risk by adding unit tests and completing development work through Scrum-based planning and delivery.

EDUCATION & CERTIFICATIONS

Software Engineering Bootcamp | University of South Florida | 2023 - 2024
B.Sc. in Systems Engineering | Bolivian Catholic University
M.Sc. in Project Management | Rey Juan Carlos University
Graduate Diploma in Information Systems Security | Private University of Bolivia
Certifications: ISTQB Foundation Level; GitLab Certified CI/CD Associate; GitLab Certified Git Associate; GitLab Project Management Associate; Selenium Ruby Automation Engineer