

Ruth Rojas

Systems Engineer

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PROFESSIONAL SUMMARY

Hired at AtlasIED to modernize how the company tests its products, replacing a slow, manual validation process with an automated platform. Build the system that runs hardware validation for up to 30 remote test stations, freeing several engineer-days per week across the team. Currently learning real-time operating systems (RTOS) and embedded development.

SKILLS

Languages: Go (Golang), Python, SQL

Backend and Networking: HTTP/3, QUIC, HTTP-based RPC (Remote Procedure Call), REST APIs, PostgreSQL, web servers

Infrastructure and DevOps: Docker, systemd services, Git, Bitbucket, Jira

Currently Learning: Real-Time Operating Systems (RTOS), embedded systems, bare-metal C

PROFESSIONAL EXPERIENCE

Junior Validation Automation Engineer

AtlasIED • February 2025 – Present

- Design and build the backend services for a distributed test-automation platform in Go (Golang), using HTTP/3 over QUIC with TLS encryption to deliver test software to up to 30 remote test machines and run it reliably.
- Build a streaming file-transfer pipeline that delivers multi-gigabyte test packages piece by piece, eliminating the memory limits and transfer failures of the previous system.
- Engineer the platform with security throughout, adding protections against malicious archives (path-traversal, decompression bombs, unsafe links), enforcing encrypted connections, and sanitizing error responses so internal details are never exposed externally.
- Implement OS-aware execution so the platform runs and correctly interprets failures across Windows, macOS, and Linux, mapping each platform's error codes to consistent categories.
- Develop fault-tolerant download and dispatch logic, including request coalescing that fetches duplicate concurrent requests only once and caching that skips redundant downloads, saving time and bandwidth.
- Build structured logging and per-request tracing that follows each request end to end, turning cryptic failures into clear diagnostics for operators.
- Replace a slow, manual validation workflow with automation, reducing tester fatigue, surfacing defects earlier, and freeing several engineer-days per week across the team.

EDUCATION

Certification, Software Engineering • Flatiron School • 2024

Associate of Applied Science, Emergency Medical Services • San Antonio College • 2012