Adrian Rodriguez
Hackensack, NJ | ***Open to Relocation*** | typicaladrian.dev | github.com/typicaladrian | linkedin.com/in/rpiarodriguez

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Summary

Software engineer **(B.S. Computer Science, RPI)** and **CySA+-certified** security practitioner pursuing an M.S. in Cybersecurity. Builds **Python/FastAPI backend services** with PostgreSQL and Docker, backed by pytest suites and **GitHub Actions CI**. Most recently built a zero-trust LLM gateway that redacts client PII at **91.4% strict recall.** Former SDET intern. Led Scrum teams of 5–15 developers in RCOS.

Technical Projects

Zero-Trust AI Edge Gateway **- Personal (July 2026–Present)** | *FastAPI, Docker, Python, pytest, Claude Code, GLiNER2, Linux*
github.com/typicaladrian/zero-trust-llm-firewall

- Built a **FastAPI proxy (Python, Docker)** that strips client PII from prompts before they reach cloud LLMs and restores it in responses; deployed on an Ubuntu Server Intel NUC behind Open WebUI.
- Designed a **layered redaction pipeline** (regex rules, SHA-256-hashed client allowlist, GLiNER2 zero-shot NER) with reversible in-memory tokenization, reaching **91.4% strict recall on 187 hand-labeled entities** across 5 real contracts (CUAD), including ~70-page agreements.
- Wrote an **86-test pytest suite** (fake-model and real-model tiers) mapping each security guarantee to a test, with **GitHub Actions CI** and branch protection; found 5 confidentiality gaps and fixed 2 tests-first, including unredacted system prompts and overlapping-match corruption.
- Implemented metadata-only audit logging with **JWT**-verified user attribution and automated monthly PDF compliance reports (ReportLab, email delivery).

Secure Operations Scheduling Platform **- Personal (February 2026)** | *FastAPI, PostgreSQL, OR-Tools CP-SAT, Gemini, pytest*
github.com/typicaladrian/Business_Schedule_Maker

- Built a **full-stack bank-branch scheduler** that turns plain-English manager requests into weekly schedules meeting 11 hard-constraint types (dual-control vault openings, certifications, contract hours) with **OR-Tools CP-SAT**, solving a 6-person week in **under 0.5 seconds**.
- Integrated a **Gemini agent** via typed function calling that can only create validated rules, never edit schedules, with every tool bound server-side to the caller's branch to **block prompt-injected** cross-tenant writes.
- Secured **12 REST endpoints** with **RS256 JWT verification (Clerk JWKS)** and per-route ownership checks; wrote **41 pytest** tests covering token forgery, cross-tenant access, and solver correctness.

Professional Experience

Branch Ambassador **– Capital One (June 2025–Present)**

- Serve as the primary technical translator for end-users, simplifying complex financial technology concepts and guiding customers through digital adoption, increasing local platform engagement.
- Investigate complex account anomalies utilizing internal diagnostic tools, balancing rigorous federal risk management protocols with a human-centered customer experience.

Software Development Engineer in Test (SDET) Intern **– Gilbarco Veeder-Root (June 2023–August 2023)**

- Owned a solo project making **regression testing** on all 40–50 TLS-350/450 fuel management systems **remotely accessible**, so QA engineers could monitor multi-hour runs and catch stuck tests without being on site.
- Wrote **Python** scripts and used **serial-to-Ethernet** adapters to bridge the systems' RS-232 interfaces to the network, exposing device health and test status; connected every system and **presented** the results to engineering leadership.

Leadership Experience

Full-Stack Developer & Agile Team Lead **– Rensselaer Center for Open Source (RCOS) @ RPI (August 2021–May 2024)**

- Engineered and **deployed core features** and directed the complete end-to-end lifecycle of **3 full-stack (JavaScript, TypeScript, React, Node.js, Next.js) software development projects** within a strict **Scrum Agile** framework.
- Served frequently as **Scrum Master**, leading and coordinating technical development teams ranging from **5 to 15 members**, facilitating workflows, and driving regular stand-ups to ensure continuous alignment.

Education & Certifications

Master of Science in Cybersecurity and Information Assurance **-** Western Governors University - Expected June 2027
Bachelor of Science in Computer Science **-** Rensselaer Polytechnic Institute - Graduated May 2024
CompTIA Cybersecurity Analyst (CySA+) **-** May 2026 | ***ISC2 Certified in Cybersecurity (CC)*** **-** December 2025

Full Technical Skills

- **Languages & Frameworks:** Python, SQL, JavaScript, TypeScript, FastAPI, React, Node.js, Next.js, PostgreSQL, REST APIs.
- **DevSecOps & Tooling:** Git, GitHub Actions, pytest, Zero-Trust Architecture, Secure SDLC, OWASP Top 10, Agile/Scrum.
- **Cloud & Infrastructure:** IAM, TCP/IP, Linux, Docker, LLM Integration, AWS, Compliance Auditing.
- **Application Security & Incident Response:** Vulnerability Management, Splunk, EDR, MITRE ATT&CK, Wireshark.