

# Adriel Ramirez

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## EXPERIENCE

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### Software Developer, *Responsive Auto Insurance*

July 2025 – Present

- Designed and implemented a distributed microservices architecture to replace a legacy monolithic system, decomposing core business domains into independently deployable services and improving system scalability, fault isolation, and deployment velocity.
- Engineered full end-to-end integrations with multiple third-party vendors, architecting RESTful APIs and event-driven service contracts to support policy management, real-time rating, and data synchronization across systems.
- Authored complex SQL queries, stored procedures, and reporting pipelines to support underwriting, compliance, and business intelligence needs; resolved critical production bugs and provided rapid technical support across internal platforms.
- Collaborated with product and cross-functional stakeholders to define system architecture, API contracts, and data models for new platform capabilities delivered under Agile workflows.

### Freelance Developer, *NexSite*

January 2023 – June 2025

- Designed and delivered custom full-stack web applications for business clients, managing the full development lifecycle from architecture planning through deployment and maintenance.
- Led a small developer team, overseeing code quality, project execution, and on-time delivery across multiple concurrent client engagements.

## PROJECTS

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### Insurance Rating Engine | Full Stack Microservice

2026

- Architected a config-driven insurance rating engine using FastAPI, featuring a pluggable adapter pattern for external rating integrations, a YAML-driven rule engine (14+ rules across eligibility, discounts, and surcharges), and a step-based pipeline supporting multi-carrier onboarding without code changes.
- Designed normalizer and adapter registries to enforce clean service boundaries — all carrier-specific logic isolated at the API boundary, keeping core business logic fully decoupled and independently testable.

### AI Voice Assistant (J.A.R.V.I.S.) | Full Stack AI Application

2026

- Built a voice-activated AI assistant using FastAPI, Claude (Anthropic), and ElevenLabs TTS with real-time speech I/O, Playwright browser automation, Claude Vision screen analysis, and smart home (Govee) + Spotify integrations.
- Implemented a double-clap trigger system via sounddevice/numpy for hands-free workspace orchestration, with automated window snapping using PowerShell and the Win32 API.

### Zip URL | Full Stack URL Shortener

2025

- Engineered a URL shortening service with 2,500+ URLs shortened and 200+ monthly active users, built on React JS, Python Flask, and Firebase, deployed on Heroku for scalability and high availability.

## SKILLS

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**Languages:** Python, JavaScript, TypeScript, SQL, Java, HTML, CSS

**Frameworks & Libraries:** React, Node.js, Express.js, Next.js, FastAPI, Flask

**Databases:** MySQL, PostgreSQL, MongoDB, Firebase

**Tools & Platforms:** Docker, AWS, Azure, Git, Linux, VS Code, Postman, Playwright

**Architecture & Practices:** Microservices, REST APIs, System Design, Agile, CI/CD, Event-Driven Architecture

## EDUCATION

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Florida International University – BA in Computer Science

May 2024