Victor Sarmiento

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Summary

Systems-focused software engineer with production experience designing backend-driven applications and operational workflows. Specialized in relational schema design, search ranking systems, state-machine modeling, and production debugging in constraint-heavy environments.

EDUCATION

University of Nevada, Las Vegas (UNLV) – B.S. Computer Science (Expected Dec 2026)

CS Coursework: Data Structures & Algorithms · Operating Systems · Database Systems · Programming Languages · Cloud Computing · Information Assurance

Technical Skills

Languages: TypeScript, JavaScript, Python, Ruby, SQL

Backend: Node.js, Express, REST APIs, Supabase RPC, PostgreSQL

Frontend: React, Next.js, Vue, Tailwind

Data: Relational modeling, query optimization, views, workflow state design

Cloud/DevOps: AWS (S3), Git, GitHub, Vercel, Heroku, CircleCI

Systems: Production debugging, RCA writing, workflow integrity, search pipelines

EXPERIENCE

HomeSavvyDeals.com — Contract Software Engineer (Part-Time)
Next.js · TypeScript · Supabase · PostgreSQL · Vercel

· Designed and implemented weighted product selection pipeline balancing affiliate share and recency scoring
· Encapsulated ranking and selection logic via Supabase RPC and database views to reduce frontend complexity
· Refactored search workflow to classify intent (direct URL lookup vs similarity-based product discovery)
· Built mobile-responsive UI components integrated with production database

Silversheet (Acquired by AMN Healthcare) — Software Engineer
Ruby on Rails · React · PostgreSQL · AWS

· Built automation pipeline converting unstructured PDF forms into structured mappings stored in AWS S3

· Reduced manual processing time from days to hours through workflow automation

· Authored 20+ root cause analyses identifying systemic failure patterns

· Shipped features behind feature flags to ensure production stability

PROJECTS

H.O.S.T. System — Workflow-Driven Ticketing Platform
Node.js · Express · PostgreSQL · JWT · React

· Designed relational schema for tickets, roles, and state transitions

· Built REST API supporting full lifecycle (create, assign, resolve)

· Implemented authentication and role-based access control

· Modeled backend logic around workflow integrity and valid state transitions

High-Frequency Data Processing (Research)

· Implemented numerical integration to derive velocity and position from acceleration signals

· Handled noise smoothing to stabilize time-series data (1000 Hz sampling rate)

· Worked with multi-trial aggregation and performance-conscious data handling