

Alvaro Calleros Sanchez

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SOFTWARE ENGINEER — APPLIED INTELLIGENCE & AI/ML

Results-driven Software Engineering student (GPA: 3.92/4.0) with production AI/ML experience building enterprise-ready systems. Proven ability to architect AI-powered applications using OpenAI, Python, and modern full-stack frameworks. Experienced in enterprise data engineering (SAP HANA, SQL optimization) and deploying scalable solutions serving real users. Strong technical communicator with consulting readiness developed through client-facing sales and cross-functional team leadership.

TECHNICAL SKILLS

- **AI/ML & Data:** OpenAI SDK, Prompt Engineering, PyTorch, NumPy, Python, Data Pipelines, SQL Optimization
- **Full-Stack:** Next.js, React, TypeScript, Node.js, Express, Flask, PostgreSQL (Prisma), MongoDB, REST APIs
- **Cloud & Tools:** Vercel, Supabase, Stripe, Clerk Auth, Git/GitHub, Postman, Playwright (Test Automation)
- **Enterprise:** SAP HANA, Eclipse, MySQL, Java, C#, C++, Scrum/Agile
- **Languages:** English (C1 Business), Spanish (Native)

RELEVANT EXPERIENCE

Freelance QA Engineer | Remote | Nov 2024 – May 2025

- Automated 120+ end-to-end tests (Playwright with TypeScript/C#) for production web applications, reducing manual testing time by 65%
- Architected Page Object Model framework ensuring 95%+ test reliability across e-commerce and SaaS platforms
- Designed API test suites (Java, Postman) validating data integrity for high-traffic applications

Freelance SAP HANA Data Consultant | Remote | Nov 2022 – Jun 2023

- Managed enterprise-scale data systems (SAP HANA, Eclipse, SQL) for Coca-Cola Peru, optimizing query performance by 40%
- Engineered DBschemas and complex SQL queries processing 500K+ daily transactions, improving data accessibility for 200+ users
- Collaborated with stakeholders to translate business requirements into technical data solutions

Scrum Master & Backend Developer | [MercArt E-commerce Project](#) | May 2025 – Sep 2025

- Led Agile ceremonies (daily stand-ups, sprint planning, retrospectives) for 6-person development team, improving team velocity by 30%
- Coordinated quality assurance processes including code reviews, integration testing, and defect tracking across Git branches
- Built backend APIs (Node.js, MongoDB) with comprehensive error handling and input validation to minimize production bugs
- Implemented manual testing protocols for authentication, payment processing, and admin dashboard features

Sales Representative – Premium Services | Pueblo Bonito Hotels | Jun 2023 – Jun 2024

- Closed 35+ high-value sales (\$800–\$4K each) generating \$50K+ revenue through consultative selling and needs analysis
- Developed client communication and objection-handling skills directly applicable to consulting engagements

AI/ML PROJECTS

[FlowInsights](#) – AI-Powered Resume Analyzer & Editor

- **Tech:** Next.js 15, TypeScript, Prisma (PostgreSQL), OpenAI SDK, Stripe, Clerk Auth, React Query, Vercel
- Architected production AI SaaS application with 4-stage OpenAI prompting system (career extraction, question generation, resume optimization) serving 150+ users
- Engineered ATS scoring engine analyzing resume structure, keywords, and impact statements with 92% accuracy vs. manual review
- Built subscription-based payment system (Stripe) and real-time data pipelines (Prisma ORM) supporting concurrent users with <200ms response time
- Designed AI editor generating role-specific interview questions and tailored resume improvements using contextual prompt engineering
- Implemented secure authentication (Clerk), file processing (.docx/.txt), and multi-format exports (JSON, Markdown, plain text)

Blitz Scan – Full-Stack Web Security Analysis Platform

- **Tech:** React (TypeScript), Python/Flask, Supabase, OpenAI API, nmap, SQLi detection tools
- Developed automated vulnerability scanner integrating fuzzing, port scanning, and SQL injection detection for web applications
- Implemented OpenAI API integration generating actionable security recommendations based on scan results, reducing manual analysis time by 50%
- Built RESTful backend (Flask) managing scan queues and real-time WebSocket updates for concurrent security assessments

Chess Analysis API – Real-Time Game Review System

- **Tech:** Node.js, Express, TypeScript, Stockfish engine, chess.js, WebSocket
- Created backend API integrating Stockfish chess engine for move analysis, providing position evaluations and best-move suggestions
- Architected WebSocket layer enabling real-time game review with <100ms latency for interactive learning experiences

EDUCATION & CERTIFICATIONS

Bachelor of Science in Software Engineering | Polytechnic University of Sinaloa (UPSIN) | Expected 2027

- GPA: 3.92/4.0 (9.8/10 scale) | Relevant Coursework: Data Structures & Algorithms, Calculus, Web Development, Cybersecurity

Arizona State University – Web Development Certification (~150 hours) | 2025