Yurkin Calderón Hidalgo

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Software Developer | AI-Driven Automation Engineering | Full Stack (JS/TS) | AWS

Experience

Full Stack – Digital SAT

Full Stack web developer- September 2025- Present

Main Responsibilities

- Developed system modules and features based on business requirements, from architecture design to production deployment.
- Created and maintained database tables and queries handling large volumes of data (~1M records/day), using indexing and query optimization to keep response times around 1 second.
- Integrated frontend and backend components to ensure accurate data processing and real-time order-status tracking.
- Built and integrated cloud services, such as Amazon Textract, into PHP APIs to automate inventory validation and sales adjustments.
- Investigated and resolved production performance issues on an Ubuntu server serving ~1,500 daily users, reducing server saturation and slow-query bottlenecks during peak traffic.

Success stories

- Logistics Delivery Management Module
  - Designed and built a full delivery-management module from scratch, replacing a manual WhatsApp/Excel process, cutting lost/mismanaged orders from 60% to under 2% of sales (98% reduction).
  - Leveraged AI (DeepSeek) for architecture design, code generation, documentation, and test writing, compressing a 3-month solo project timeline into under 1 month.
  - Built and optimized database structures handling ~1M records/day, taking query times to ~1 second, and doubled weekly delivery throughput (80 → 160+ shipments/week) with real-time order-status tracking.
- SIM Inventory Recognition & Automated Sales Validation — AWS Textract
  - Built a PHP API integrating Amazon Textract to extract SIM identifiers from Base64-encoded images and validate inventory in real time.
  - Automated stock validation and sales adjustments, using DeepSeek for architecture, coding, debugging, and testing.
  - Eliminated SIM inventory discrepancies (100% reduction) and extended the API for store audits and inventory-control processes.

Co-Founder & Full Stack Developer – Tico Flow

Solutions Web Developer - Dec 2024 – Present

Main Responsibilities

- Built full-stack apps with React and Node.js, including an inventory system that eliminated monthly stock losses.
- Developed fast, scalable websites with Astro, helping a client grow bookings by 167%.
- Replaced manual Excel processes with custom software, cutting inventory counts from days to one day.
- Used AI tools (ChatGPT, Claude, Gemini) across the development cycle to accelerate delivery.
- Managed Git and GitHub workflows, including branching and deployments, as co-founder.

Success Stories

- Auto Repair Shop Website (Astro)
  - Developed a complete informational website using Astro, focused on fast load speed (~3s) and clean, scalable structure, delivered over a 3-month engagement.
  - Used AI (ChatGPT, Claude) throughout the build for componentization, content, and optimization support.
  - Result: client-reported appointments increased from 30 to 80/period — a 167% increase in bookings.
- Supermarket Inventory Management System (React + Node.js)
  - Built an inventory system for ~300 SKUs handling entries, exits, sales, and adjustments, processing 400-500 daily transactions.
  - Replaced an Excel process, cutting physical counts from days to one day.
  - Eliminated monthly inventory losses (₡30,000 to ₡0) with real-time stock visibility.

Web Developer Intern – ParallelDevs

Developer- June 2024 –September 2024

Main Responsibilities

- Set up, configured, and maintained Drupal websites on the Pantheon platform.
- Performed updates, fixes, and environment management to ensure platform stability.
- Worked with Git-based workflows for version control and team collaboration.
- Assisted in code deployment processes across development, testing, and production environments.
- Supported the team by troubleshooting issues and performing general maintenance tasks.

Success Stories

- Drupal Site Setup & Maintenance
  - Configured, updated, and maintained Drupal environments on Pantheon for 10+ client sites, including backups and environment synchronization.
  - Reduced environment sync/backup time from 3 days to 1 day (67% faster) and cut deployment incidents from ~10 to 1 per period using AI (ChatGPT) for configuration debugging.
  - Result: cut site outages in half (from ~2/month to 1/month), increasing platform stability across client sites.
- National Hospital/Veterinary Directory Site (Drupal)
  - Built and maintained a nationwide directory of 800+ hospitals and veterinary clinics, supporting approximately 1,000 daily visits.
  - Developed searchable, location-based functionality processing approximately 2,000 nearby-clinic searches, returning relevant results in ≤3 seconds.
  - Collaborated within a 4-developer team using Git and Pantheon workflows to manage development, version control, and deployments.
  - Used DeepSeek AI to accelerate data organization and development workflows while maintaining project quality.
  - Achieved 100% satisfaction from ParallelDevs supervisors, validating the project's functionality, performance, and delivery.

Education

Software Engineering
Universidad Nacional de Educación a Distancia (UNED). February 2022 – Expected graduation: March 2027

Technical Degree in Software Application Development
Instituto Nacional de Aprendizaje (INA). August 2022 – November 2024

Additional Education

AI Agents Course — Hugging Face July 1 – July 29, 2026
AI Paper Reading Club — GDG ongoing participation

Skills

Software Engineer, AI-Driven Development: ChatGPT, Google Gemini, DeepSeek, GitHub Copilot; prompt engineering, AI-assisted code generation and refactoring, debugging, code review, test generation, documentation, database query optimization, performance analysis, and development workflow automation.
Programming Languages: Java, JavaScript, TypeScript, C#, C++, PHP.
Software Engineering: Data Structures & Algorithms, Object-Oriented Programming (OOP), MVC, RESTful APIs, Agile/Scrum, CI/CD, debugging, software testing, code review.
Backend Development: Node.js, Spring Boot (Basic).
Frontend Development: React, React Native, Angular, CSS, Bootstrap, Tailwind CSS.
Cloud & DevOps: AWS (Amazon Textract), Microsoft Azure (Basic), Git, GitHub, Pantheon.
Databases: MySQL, MongoDB, Firebase (Basic); SQL query optimization and database performance analysis.
Testing & Performance: Unit and integration testing, automated test support, load testing, stress testing, performance analysis, API testing.
Mobile Development: Kotlin, Android Studio.
Tools & IDEs: Visual Studio Code, Visual Studio, NetBeans, Code::Blocks, Postman, WinSCP.
Operating Systems: Linux (Ubuntu, Garuda Linux), Windows.