

Aldrei Justin S. Santua

Full-Stack Developer | AI Automation Specialist

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PROFESSIONAL SUMMARY

Full-stack developer and AI automation specialist with hands-on experience shipping production ERP customizations, web applications, and LLM-powered automation workflows. Builds full-stack systems with Python, JavaScript/TypeScript, Node.js, and PostgreSQL, and designs autonomous, API-integrated automation using n8n, OpenAI, Anthropic Claude, and Retrieval-Augmented Generation (RAG). Experienced across the automation lifecycle: multi-step AI agent workflows, vector-search-backed knowledge retrieval, conditional business-process routing, and webhook/API integrations for support, data-monitoring, and content-aggregation use cases. Cum Laude Computer Science graduate who has served as both QA tester and developer, including on a full Odoo 13 to 19 ERP migration, identifying and resolving 310+ production defects across multi-client deployments, and delivers reliable software in Agile environments.

TECHNICAL SKILLS

AI & Automation: n8n, Make.com, OpenAI API, Anthropic Claude, Google Gemini, Groq API, LLM Integration, Retrieval-Augmented Generation (RAG), Vector Search, AI Agents, Prompt Engineering, Webhook & API Automation

Languages: Python, JavaScript, TypeScript, Java, SQL

Frontend: React, Next.js, HTML5, CSS3, Tailwind CSS, XML

Backend: Node.js, Express.js, Odoo ERP, REST APIs

Databases: PostgreSQL, MySQL, MongoDB, Supabase

Cloud & DevOps: AWS, Microsoft Azure, Google Cloud Platform, Neon, Vercel, Docker, Git, GitHub, GitLab, CI/CD, Playwright, Postman

Practices & Tools: Object-Oriented Programming, Agile Development, Software Testing, Figma, Google Stitch, Canva

FEATURED PROJECTS — AI AUTOMATION

AI Customer Support Workflow (RAG-Enabled)

2026

AI Automation Developer

- Built an automated customer support workflow using n8n and large language models to process customer inquiries and generate context-aware, RAG-grounded responses.
- Integrated third-party APIs and webhook-based triggers to streamline support operations and reduce manual intervention.
- Applied prompt engineering techniques to improve response relevance and consistency, and implemented workflow branching and conditional logic to handle different inquiry types.

AI-Powered Customer Support Triager (RAG-Enabled)

2026

AI Automation Developer

- Designed and built an end-to-end AI ticket-triage pipeline in n8n that ingests support tickets via form intake and uses an LLM-driven agent (Groq) to classify category, sentiment, and urgency.
- Implemented Retrieval-Augmented Generation (RAG) with a vector store and Cohere embeddings so AI-drafted replies are grounded in a company knowledge base rather than the model's general knowledge.
- Built conditional routing logic that auto-escalates high-urgency, negative-sentiment tickets to a dedicated Slack channel and distributes remaining tickets to category-specific team channels.
- Logged every ticket, its classification, and its AI-drafted reply to Airtable, creating an auditable system of record for human review before replies are sent.

Crypto Price Watcher (Automated Change Detection)

2026

AI Automation Developer

- Built a scheduled n8n workflow that polls a live market-data API every 15 minutes for multiple crypto assets and calculates percentage price change against the last recorded value.
- Designed a form-based subscriber registration flow with persisted opt-in state, delivering Telegram alerts only when price movement crosses a defined threshold to avoid notification fatigue.
- Implemented stateful price tracking with structured data storage to support accurate change detection across every scheduled run.

RSS-to-Discord Digest Bot

2026

AI Automation Developer

- Developed a scheduled aggregation workflow that pulls postings from an RSS feed and a REST API in parallel, normalizes both into a common schema, and merges the results.
- Built a deduplication layer backed by persistent data storage to ensure only newly discovered items are surfaced on each run.
- Automated digest formatting and delivery to Discord via a secured webhook integration, replacing manual, repetitive source-checking.

FEATURED PROJECTS — FULL-STACK DEVELOPMENT

Personal Portfolio Website

2026

Full-Stack Developer

- Designed and implemented a Retrieval-Augmented Generation (RAG) AI assistant that answers recruiter questions about projects, skills, experience, education, and leadership using semantic search and LLMs.
- Integrated AWS S3 for asset/resume storage and Neon serverless PostgreSQL with pgvector for structured content and vector search, gaining hands-on cloud architecture experience.

- Built a fully responsive, minimalist UI with reusable component architecture and deployed it through a production CI/CD pipeline with automated builds and cloud hosting.

Hybrid Grammatical Error Correction Framework (Thesis)

2026

Developer

- Designed a hybrid NLP system combining a rule-based Finite State Transducer with machine learning models (mBART, Bi-GRU, XLM-R) for Filipino grammar correction.
- Built the system architecture, implemented core logic in Python, trained models on Google Colab Pro, and created a custom annotated dataset for training and evaluation.

tape. — Mobile App Backend

2025

Backend Developer

- Built RESTful task-management APIs in Node.js and MySQL; verified endpoint reliability and data integrity with Postman-based API testing.

Pinasuri

2025 – 2026

UI Designer

- Designed a user-centered interface aligned with Human-Computer Interaction (HCI) principles in Figma, including wireframes and interactive prototypes.

Additional projects: Kape sa Tabi-tabi (web app, HTML/CSS/JS) · LG Aire Clone (frontend clone, HTML/CSS/JS) · Fur and Fiber (responsive frontend, HTML/CSS/JS).

WORK EXPERIENCE

TechOps PH — Junior Web Developer (Part-Time)

Feb 2026 – Present

Remote

- Developed, customized, and refactored Odoo ERP modules using Python and XML, collaborating with implementation consultants to translate client requirements into scalable solutions; resolved 40+ frontend and backend defects, improving system stability across multi-client deployments.
- Served as QA Tester and Engineer for a separate client's Odoo ERP migration from version 13 to 19, running structured QA testing with Playwright; identified and personally fixed/refactored 212 issues and bugs, significantly improving platform stability.

Achieve Without Borders, Inc. — Full Stack Developer Intern

Jul 2025 – Aug 2025

Makati City, Metro Manila

- Developed and maintained HRIS modules on the Odoo ERP platform using XML (frontend) and Python (backend); collaborated with functional consultants and QA engineers to deliver business requirements in an Agile environment.
- Debugged and resolved 60+ system defects, improving application stability; used Docker, PostgreSQL, Git, and GitLab to streamline development workflows and support faster sprint delivery.

JSR Web Solutions — Web Developer Intern

Aug 2025 – Aug 2025

Remote

- Built responsive web interfaces using HTML, CSS, and JavaScript, translating Figma prototypes into functional UI components; applied SEO best practices including semantic HTML structure.
- Collaborated on website optimization, improving page structure, responsiveness, and content organization, while gaining hands-on experience with WordPress development.

LEADERSHIP EXPERIENCE

Computer Science Student Organization — Cavite State University

2022 – 2025

Indang, Cavite, Philippines

- President (2024–2025): Led organization-wide operations across multiple committees; developed and enforced governance policies and frameworks that improved coordination and internal processes; nominated for Most Active Officer and Most Influential Student.
- Vice President for Internal Affairs (2023–2024): Implemented organizational policies and governance systems and evaluated resolutions/legislative proposals, strengthening decision-making processes.
- Gender and Development Representative (2022–2023): Led GAD awareness campaigns and redesigned communication channels to improve information dissemination.

Junior Philippine Computer Society — CvSU Chapter

2023 – 2024

Business Manager · Indang, Cavite, Philippines

- Sourced and coordinated with suppliers and stakeholders to support organizational activities and logistics; introduced a performance-tracking system that improved accountability.

EDUCATION

Cavite State University — Don Severino de las Alas Campus

2022 – Present

Bachelor of Science in Computer Science · Indang, Cavite, Philippines

- Cum Laude — GWA: 1.32

Emilio Aguinaldo College – Cavite

2021 – 2022

STEM Strand · Dasmariñas City, Cavite, Philippines

- With Highest Honors; Conduct Awardee

CERTIFICATIONS

Claude Certified Architect – Foundations · IBM Enterprise Design Thinking Practitioner · Cisco Python Essentials 1 · Cisco Introduction to Internet of Things · DataCamp: Introduction to Python, Introduction to Python for Developers, Understanding Data Science · C(old) (St)art Hackathon