

JUSTIN ALLEN H. CRUZ

Software Engineer | Backend Developer | Automation Developer

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PROFESSIONAL PROFILE

Dedicated Information Technology professional with a specialization in Automation, possessing extensive technical expertise in full-stack engineering, backend systems, and process optimization. Adept at architecting robust web platforms, RESTful services, and enterprise-level automation utilizing Node.js, React, Flutter, and n8n. Committed to engineering high-performance software solutions that enhance operational efficiency through intelligent system integration and automated workflows.

EDUCATION

University of Santo Tomas – Manila | 2022 – 2026

Bachelor of Science in Information Technology (Specialization in Automation)

- Recipient, **Ranked 1, Best Capstone Award** in Automation – UST College of Information and Computing Sciences (2026)
- Dean's Lister – **A.Y. 2022–2023**

PROFESSIONAL EXPERIENCE

AGN Networks Solutions Inc.

Team Lead | Automation Developer Intern | 2026

- Spearheaded the development of a proprietary CRM platform as Team Lead, leveraging **n8n workflow automation** for system optimization.
- Engineered **7 automated workflows** managing **168 client accounts**, significantly enhancing the efficiency of sales operations and client communication channels.
- Integrated automated reporting and notification systems for high-value transactions exceeding **₱200,000** to facilitate data-driven insights for internal stakeholders.

PROJECTS

Beyond Beautiful Inventory Management System

Lead Software Developer

Developed a full-stack inventory system with a Flutter mobile app and React admin dashboard.

- Architected a full-stack inventory management system comprising **4 integrated applications** using Flutter, React, Node.js, PostgreSQL, Prisma, and Docker.
- Developed **RESTful APIs** and a **7-entity relational database** supporting barcode generation, inventory tracking, transactions, and analytics.
- Implemented secure JWT authentication, role-based access control, and atomic inventory transactions for reliable warehouse operations.

EcoGuardian: Forest Fire & Illegal Activity Detection

IoT / Backend Developer

- Built an IoT platform using Raspberry Pi and LoRaWAN for real-time alert generation.
- Engineered a Node.js and SQLite backend supporting real-time data ingestion and alert generation.
- Awarded Best Capstone Project in Automation by the University of Santo Tomas, College of Information and Computing science.

TECHNICAL SKILLS

Languages & Tech: Python, JS, Java, PHP, C#, SQL, React, Flutter, Node.js, Express, PostgreSQL, MySQL, Docker, n8n, Git, IoT

CERTIFICATIONS

- PhilNITS Information Technology Passport (IP)
- CompTIA IT Fundamentals (ITF+)
- Cisco CCNA: Switching, Routing and Wireless Essentials
- Cisco CCNA: Enterprise Networking, Security and Automation