

ALWIN A. ALON

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SUMMARY

BS Information Systems graduate with hands-on full-stack development experience across **React, TypeScript, Laravel, CodeIgniter, and FastAPI**. Built and shipped **ATOM**, a multi-platform enterprise system (Web and Android) deployed across **5 live branches** with RBAC, AI-driven BI dashboards, and a RAG-based chatbot. Skilled at **translating complex technical concepts into clear, non-technical language** for stakeholders, built through client-facing and staff-training roles. Experienced in Git, Bitbucket, and Trello-based team workflows with direct production database management exposure.

WORK EXPERIENCE

Field Service Engineer (On-Call, Part-Time – Weekends), Cerventech

July 2026 – Present

- Deployed weekly on a bank-wide hardware upgrade project across **5+ branch locations**, maintaining **20+ workstations**, **8+ customer kiosks**, and **10+ queue-display TVs** per deployment
- Served as the on-site technical liaison, **translating technical changes into clear, non-technical language** for branch staff and managers before and after each deployment, covering outcomes and escalation steps
- Coordinated with remote controllers to resolve hardware and software issues; assisted with server upgrades and printer migrations across multiple branch environments

Software Developer Intern, NLP Business Development Services, Quezon City

May 2025 – Aug 2025

- Developed and maintained full-stack web applications using **CodeIgniter (PHP) and MySQL** in a production environment
- Managed and maintained client databases, writing queries, ensuring data integrity, and supporting backend operations
- Collaborated using Git, Bitbucket, and Trello in a sprint-based team workflow to manage tasks and ensure clean deployments
- Diagnosed and resolved production bugs, reporting findings and progress to senior engineers within structured sprint cycles

Trainer's Assistant: Basic Computer Operations, Caloocan City Manpower Training Center

July 2023 – Aug 2023

- Taught foundational computer operations and Microsoft Office applications (Word, Excel, PowerPoint) in a structured classroom environment, **breaking down technical concepts for non-technical learners**
- Provided client-facing IT support; diagnosed and resolved hardware, software, peripheral, and network connectivity issues

PROJECTS

ATOM: Automated Transcycle Operations & Management | Laravel, React, React Native, Expo, Gemini AI, Grok

- Engineered core modules of ATOM as part of a small development team, a multi-platform enterprise dealership system with a full Web application and an Android mobile app (React Native/Expo), managing inventory, loan processing, and retail operations across **5 live Transcycle branches**
- Designed and implemented a **7-tier RBAC permission matrix** enforcing strict data isolation across all organizational roles from system admin down to branch-level staff
- Built AI-driven BI dashboards converting raw dealership metrics into visual management reports; integrated a **RAG-based Gemini AI chatbot** to automate customer inquiry resolution and provide manager-facing insights
- Led end-to-end QA validation across all 5 branches, testing security, performance, and data integrity, and **presenting results directly to company stakeholders**

SpeaQL: AI-Powered Natural Language Database Interface | Python, FastAPI, Streamlit, LangChain, Groq

- Engineered a hybrid NL2SQL engine translating plain English into accurate SQL queries, supporting zero-config mode for quick lookups and high-precision mode for complex operations, making databases accessible to non-technical users
- Implemented LangChain pipelines for dynamic schema-aware context injection, and built **AI-driven validation middleware to intercept and block SQL injection attempts** before query execution
- Developed a responsive Streamlit interface for real-time query iteration; benchmarked latency and accuracy across PostgreSQL and SQLite dialects to guide engine tuning

TECHNICAL SKILLS

Languages: PHP, JavaScript, TypeScript, Python, Java, SQL, HTML, CSS

Frameworks: CodeIgniter, Laravel, React.js, React Native, FastAPI, Node.js/Express, Spring Boot, Tailwind CSS

Databases & Tools: MySQL, PostgreSQL, Git, GitHub, Bitbucket, Trello, Termius, Expo

Cloud & Infra: Azure, DigitalOcean VPS, Hostinger, Linux VPS Management

Specializations: Full-Stack Development, Mobile Development, REST API Design, Database Management, BI Analytics, AI/RAG Integration, RBAC

CERTIFICATIONS

Hardware and Upgrade Support – Cisco Networking Academy

Introduction to Cyber Security – Cisco Networking Academy

EDUCATION

Bachelor of Science in Information Systems – University of Caloocan City | 2022 – 2026