Gabriel De Castro

Full-Stack Developer | Software System Analyst / Programmer

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PROFESSIONAL SUMMARY

Full-stack developer and system analyst with 4+ years of professional experience, plus freelance work since 2021, building web, mobile, desktop, and database-driven business applications. Currently a Software System Analyst / Programmer at G Chemtrading Corp, developing inventory, point-of-sale, personnel management, and B2B online ordering systems used across a group of companies. Works end to end, from gathering operational requirements to deploying and maintaining the Linux and Windows servers the systems run on, and chooses the tools that best fit each requirement and timeline: PHP, Laravel, Vue.js, Node.js, and ColdFusion for web applications, with NativePHP, Capacitor, and Electron for mobile and desktop builds. Experienced in REST API integration and real-time WebSocket features. B.S. Computer Science, Magna Cum Laude.

TECHNICAL SKILLS

Languages: PHP, JavaScript, TypeScript, SQL, HTML, CSS, Dart, CFML (ColdFusion), Bash, PowerShell; familiar with C# and Python

Back-End: Laravel, Laravel Livewire, Node.js (Express, Fastify), ColdFusion / Lucee

Front-End: Vue.js, Bootstrap, jQuery, Axios, Vite

Mobile & Desktop: NativePHP (Laravel desktop and mobile apps), Capacitor (Android APK builds), Electron (desktop apps), Flutter (Dart, Dio)

Databases: MySQL, MariaDB, Microsoft SQL Server, SQLite, Redis, MongoDB

APIs & Real-Time: REST API design and integration, WebSockets, Server-Sent Events, long polling, JWT and OAuth authentication, rate limiting

Servers & Cloud: Linux and Windows server administration, Nginx, Apache, IIS, cPanel, Plesk, AWS, Microsoft Azure, web hosting and deployment

Tools & Practices: Git, GitHub, OOP, MVC, UML, ER diagrams, flowcharts, web scraping (Cheerio), AI chatbot development, AI-assisted development (Claude Code, GitHub Copilot, Codex, Continue.dev, Ollama)

PROFESSIONAL EXPERIENCE

Software System Analyst / Programmer **Jul 2023 – Present**
G Chemtrading Corp

- Gather and analyze operational requirements with business stakeholders and translate them into web and mobile applications for G Chemtrading and companies under the FOG Group of Companies.
- Develop and maintain core business systems, including a warehouse inventory and point-of-sale system, a personnel management system, and the Impurio B2B grocery platform (see Selected Projects).
- Modernize legacy systems by introducing real-time dashboards and automated workflows that reduce manual processing.
- Set up, integrate, and maintain Linux and Windows production servers, including WebSocket servers, and apply regular security updates.
- Designed and launched the corporate website (gchem.com.ph) with newsletter signup and direct email contact.

App Developer **Sep 2022 – Jul 2023**
GoPlus Technologies OPC

- Developed features for bookdis.com, a taxi, service, and food booking platform, including real-time chat and live order status updates, using Laravel, Vue.js, and WebSockets.
- Contributed to GPLUS, an authorization server and merchant platform for GoPlus partner merchants, featuring GPLUS Pay for settling merchant payables, admin tools, and a mobile marketplace app for selling to loyal customers.
- Developed and integrated REST APIs and optimized backend algorithms to improve API response times.

- Managed application servers, including setup and configuration of WebSocket servers for real-time features.
- Worked with cross-functional teams to gather requirements and deliver features for clients in the food and service sectors.

Freelance Developer **2021 – Present**
Self-employed

- Deliver end-to-end web applications for clients in e-commerce, logistics, and service industries, from requirements through deployment.
- Design and implement secure REST APIs and WebSocket servers for real-time data synchronization.
- Develop Android applications and integrate them with backend systems.
- Manage and optimize client hosting and cloud infrastructure to reduce hosting and maintenance costs.

SELECTED PROJECTS

Warehouse Intelligence System | *G Chemtrading Corp | ColdFusion (CFML)*
Inventory and point-of-sale system developed for multiple companies, including Golden Empire Foodservice Corporation. Manages inventory, procurement, sales, and delivery tracking to streamline warehouse and sales operations.

Personnel Management System | *G Chemtrading Corp | Laravel*
Centralized HR system for G Chemtrading and the FOG Group of Companies, covering employee records, attendance and location tracking, and administrative workflows.

Impurio B2B Grocery Platform | *G Chemtrading Corp | Laravel*
B2B online grocery platform for fresh produce and wholesale distribution in the Philippines, connecting suppliers and businesses through online ordering and inventory management, with an analytics dashboard for sales and stock performance.

Quezon Pickleball Club Reservation and POS System | *Built for Quezon Pickleball Club | Laravel*
Combined court reservation and restaurant point-of-sale system with booking management, order processing, and sales reporting. Its analytics dashboard uses historical booking data to identify the busiest days and peak hours, helping management schedule staff.

I Love Philippines (iloveph.org) | *Laravel; web and mobile*
Web and mobile platform that connects donors and volunteers with verified communities in need, using geolocation matching to surface nearby causes and supporting transparent real-time impact tracking.

EDUCATION

Bachelor of Science in Computer Science **2022**
STI College, Lucena, Quezon | Magna Cum Laude

CERTIFICATIONS & TRAINING

- Microsoft Certified: Azure Fundamentals – Microsoft, Jun 2023
- REST API (Intermediate) – HackerRank, May 2023
- JavaScript Algorithms and Data Structures – freeCodeCamp, May 2023
- SQL (Intermediate) – HackerRank, Apr 2023
- Responsive Web Design – freeCodeCamp, Apr 2023
- NDG Linux Unhatched – Cisco Networking Academy, Jan 2023

Training: CSS, Bootstrap, JavaScript and PHP Stack Complete Course (Udemy, Oct 2023); Laravel From Scratch (MindLuster, Jul 2023); Dart & Flutter: The Complete Flutter Development Course (Udemy, Jul 2023); Git, GitHub & Markdown Crash Course (Udemy, Jun 2023); Internet and Web Development Fundamentals (Udemy, Apr 2023); cPanel Ultimate Guide (Udemy, Apr 2023)