

KARL DARNAYLA

Software Engineer | Full-Stack Developer

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PROFESSIONAL SUMMARY

Driven Software Engineer and Fresh Graduate with 3+ years of practical freelancing experience (since 2022) building production web applications, REST APIs, and SaaS platforms. Specializes in TypeScript, React, Python, Node.js, NestJS, Express, PHP (Laravel), and SQL databases (PostgreSQL, MySQL). Creator of MCFG VPN Portal (mcfcloud.com), a live SaaS platform serving 1,000+ active network operators across 5+ countries with 99.9% uptime. Proven ability to design scalable systems, optimize API performance, and deliver high-quality custom software solutions.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, PHP, SQL, HTML5, CSS3

Frontend: React, Next.js, Tailwind CSS, Responsive UI Design, SPA Architecture

Backend: Node.js, NestJS, Express.js, FastAPI, Laravel (PHP), REST APIs

Database: PostgreSQL, MySQL, SQL Query Optimization, Schema Design

Tools: Git, GitHub Actions, Bitbucket, Docker, Linux (Ubuntu), Raspberry Pi, MikroTik VPN (Winbox/API/SSH)

Cloud: Vercel, Cloud Hosting

Other: REST APIs, JWT Authentication, WebSockets, OOP, Microservices, MVC

PROFESSIONAL EXPERIENCE

Software Developer & Founder

KodeByKarl (formerly NextG Tech) | 2026 – Present

- Developed end-to-end full-stack solutions, SaaS portals (MCFG VPN), and custom POS management systems for international and local clients.
- Built high-performance React and Next.js frontends integrated with Node.js, NestJS, Express, and PostgreSQL backends.
- Improved deployment workflow by automating cloud hosting on Vercel and optimizing server response times.
- Architected scalable authentication flows with JWT and OAuth 2.0.

Software Developer Intern

EasyBus PH | 2026

- Contributed to LGU mobile apps built by EasyBus PH, including MyNaga (Naga City) and KaisaKa (Santiago City), serving residents on iOS and Android.
- Developed backend features and REST API endpoints with NestJS, collaborating through Bitbucket-based version control and code reviews.

Full-Stack Developer

Beam PH | 2025

- Developed web applications and backend REST APIs, reducing database response times for core application features.
- Collaborated with cross-functional teams to implement responsive UI components and database schema updates.

Freelance Software Developer

Independent Contracts & Academic Systems | 2022 – 2024

- Built 20+ custom web applications, administrative portals, and academic capstone software projects on tight client deadlines.
- Reduced client system errors by implementing automated form validation and structured REST API error handling.

PROJECTS

MCFG — VPN Remote Access Portal

Tech Stack: Python, MikroTik API, REST APIs, Wallet System

- Built a live SaaS control plane supporting 1,000+ active network operators across 5+ countries with 99.9% uptime. (mcfcloud.com)
- Implemented real-time VPN tunnel monitoring, online/offline status indicators, automated account provisioning, and wallet renewal workflows.

MyNaga App — Naga City Official Mobile App

EasyBus PH × LGU Naga City | Tech Stack: TypeScript, NestJS, REST APIs

- Official city app on iOS and Android giving Nagueños one hub for city service guides, official news, and emergency hotlines. (mynaga.app)
- Supports in-app citizen reporting so residents can send community concerns directly to the city government.

KaisaKa — Santiago City Citizen App

EasyBus PH × LGU Santiago City | Tech Stack: TypeScript, NestJS, REST APIs

- Citizen services app launched in April 2026 covering business permits, property taxes, civil registry requests, and budget transparency.
- Includes online financial-assistance applications, a job portal, facility booking, public-safety reporting, medical appointment booking, and a local tourism guide.

North Star International Travel INC

Tech Stack: TypeScript, Next.js, Tailwind CSS

- Developed a responsive company website showcasing travel packages and services, with inquiry handling for prospective clients.

SmartBuild

Tech Stack: TypeScript, React, NestJS, PostgreSQL

- Built a full-stack web platform with modular NestJS services, role-based authentication, and a React dashboard.

RabbitAlley POS & Inventory Management System

Tech Stack: TypeScript, React, Node.js, PostgreSQL

- Developed a complete Point-of-Sale and inventory management application for pet and supply stores.
- Implemented real-time stock tracking, sales transaction logging, receipt generation, and employee shift auditing.

MaxHigh Bet Hub

Tech Stack: TypeScript, React, Node.js, WebSockets, PostgreSQL

- Built a sports platform featuring real-time odds tracking via WebSockets and automated bet settlement logic.

Festive Feast / Christmas Decord

Tech Stack: TypeScript, React, Next.js, Tailwind CSS

- Developed a full-stack e-commerce web application featuring interactive product catalogues, cart state management, and real-time order processing. (christmasdecord.com.ph)

Hospital Management System

Tech Stack: HTML, CSS, JavaScript, PHP, MySQL

- Developed a comprehensive hospital CMS handling patient records, doctor appointment scheduling, and billing management.

Noel — Python Utility Bot

Tech Stack: Python, asyncio, REST APIs

- Built an automated task execution and notification bot utilizing modular command-based architecture.

EDUCATION

Bachelor of Science in Information Technology

Our Lady of Fatima University | Graduation: 2026

CERTIFICATIONS

- Cisco: CCNA: Switching, Routing, and Wireless Essentials
- Cisco: CCNA: Introduction to Networks
- Cisco: Ethical Hacker
- Cisco: Network Defense
- Cisco: Endpoint Security
- Cisco: Network Technician Career Path
- Cisco: Getting Started with Cisco Packet Tracer
- Cisco: Exploring Networking with Cisco Packet Tracer
- DICT-ITU: Cyber Threat Management
- GrayVantage: Cybersecurity Fundamentals: Protecting Privacy in the Digital Age
- Ethtel: IoT and Data Privacy: Protecting User Information
- Techbridge: Cybersecurity Career Roadmap 2026
- Techbridge: From Inquiry to Launch: Web Design and Development Process

ACHIEVEMENTS

- Built 20+ production web applications and custom software systems
- Creator of MCFG VPN SaaS platform with 1,000+ active users across 5+ countries
- Earned 14 technical certifications across Networking, Cybersecurity, and Web Development
- Freelance Software Developer since 2022