

JOHN KRISTOFFER IMPERIAL BICIERRO

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EDUCATION

Ateneo de Naga University

Bachelor of Science in Information Technology
College of Computer Studies

Naga, Region V
2022 - 2026

TECHNICAL SKILLS

Languages: C/C++ · Java · Javascript/Typescript · PHP · Ruby · Python
Frameworks: Astro · Next.js · React · Vue.js · Expo · React Native · Electron.js · Express.js · Laravel
Electron.js · Express.js · Laravel · Rails · Django · FastAPI
Databases: Oracle PL/SQL · MySQL · MariaDB · PostgreSQL · Supabase · SQLite · Firebase
MongoDB · Redis
System Design: Draw.io · Figma
DevOps: Docker · Github Actions
Deployment: OVH · Vercel · Vultr · Google Cloud · Firebase · Github Pages · Digital Ocean · Heroku
Hostinger · Render

EXPERIENCES

Junior Application Developer Intern | Ateneo de Naga University

Feb 2026 - Present
Internship

Python · Docker · PHP · PL/SQL · Laravel · Oracle PL/SQL

- Developed a custom **Python-based RFID scanning system** to automate patient identification and streamline infirmary workflows, reducing manual processing time.
- Containerized applications using **Docker (multi-stage builds)** with **Nginx reverse proxy**, implementing secure headers and SSL/TLS configuration for production-ready deployment.
- Delivered **technical presentations and system demos** to nurses, doctors, and administrative staff, translating technical features into operational benefits.
- Led **user onboarding sessions for testers and volunteers**, providing training and documentation to ensure effective system adoption.
- Improved and refactored **legacy database structures** to support a **multi-tenant architecture**, enhancing scalability and maintainability across multiple infirmaries.

Backend Engineer | Tindahang Tapat

Jan 2026 - Feb 2026
Internship

Ruby · PostgreSQL · Docker · Ruby on Rails

- Applied **Ruby on Rails** fundamentals to solve backend problems and optimize application logic under senior developer guidance.
- Studied and implemented features based on official documentation, strengthening practical understanding of framework conventions and best practices.
- Participated in and facilitated **code review discussions**, helping improve code quality, readability, and team collaboration standards.

Backend Developer & System Architect | Ateneo de Naga University

May 2025 - Dec 2025
Contract

PHP · PL/SQL · Laravel · Oracle PL/SQL

- Conducted research and gathered user requirements to architect and deploy a scalable full-stack web application supporting **2 campuses** and **4 infirmaries**.
- Integrated and migrated **500,000+ records** from legacy systems, centralizing operations and enabling data-driven reporting for **13,000+ users** with secure custom authentication with extra security protocols.

- Optimized system performance: reduced page load times from **8-23s to 1.5-6s** and database query execution from **12-24s to 0.1-6s** via caching, indexing, and code refactoring.

Full Stack Engineer | codekada

July 2024 - Present

JavaScript/TypeScript · PostgreSQL · MySQL · Express.js · Next.js · Vue.js · Supabase API

Self-employed

- Led team development and code reviews across **500+ commits**, ensuring high-quality, maintainable code.
- Architected and deployed full-stack projects using a modern technology stack, **accelerating development by 80%** while improving performance and security.
- Collaborated with clients through agile development, incorporating feedback to deliver customized solutions on schedule.
- Configured and maintained Linux servers with **98.99% uptime** for production deployments.
- Designed system architecture with diagrams and schemas to ensure scalability and maintainability for future growth.

PROJECTS

Online Store & Tailored Operation Workflow | Cha Collections

February 2026

JavaScript/TypeScript · Next.js · Supabase API

Full Stack

- Engineered an end-to-end e-commerce workflow system aligned with real business operations and user behavior
- Designed role-based access control (Guest, Customer, Admin, Reseller) to support multi-level permissions and operations
- Implemented multi-order processing flow to improve repeat purchase handling and transactional efficiency
- Developed a streamlined ordering system that reduced friction across the customer purchase journey
- Built a responsive UI optimized for a broad user demographic (18-40+), improving navigation clarity and usability

Search Engine Optimized with MDX | jkbicierro.com

Dec 2025

JavaScript/TypeScript · Next.js · MDX

Full Stack

- Built a high-performance SEO-optimized portfolio using Next.js for improved indexing and organic discoverability
- Implemented MDX-based content architecture to eliminate database dependency and simplify content management
- Structured technical case studies and documentation to strengthen developer credibility and portfolio depth
- Designed a conversion-focused layout to increase recruiter engagement and project visibility

User Control Panel & Payment Integration | edge-rp.com

Nov 2024 - Dec 2025

JavaScript/TypeScript · MySQL · Next.js · Paymongo API · Leaflet API

Full Stack

- Engineered a full-stack user control panel integrated with game server infrastructure and Discord OAuth authentication
- Developed real-time synchronization between website accounts and the in-game character creation system
- Implemented secure Paymongo payment gateway for in-game purchases and premium services
- Built an API-driven dashboard for server management, player interaction, and leaderboard tracking
- Designed an interactive map system visualizing in-game assets (houses, vehicles, properties, businesses) using Leaflet

Map Integration & Reporting System | VibeBayan, Hackathon 2025

Oct 2025

JavaScript/TypeScript · PostgreSQL · Next.js · Supabase API · Mapbox API

Backend

- Integrated Mapbox API for real-time geolocation-based reporting and visualization
- Designed and implemented an RBAC system with a structured relational database schema
- Developed an image upload and storage pipeline using Supabase services for reporting features

Quiz System & Image Validation Listing | Biomemes

July 2025

JavaScript/TypeScript · Next.js · PostgreSQL · Supabase API

Full Stack

- Designed and implemented a database schema to support quiz and image-based content workflows
- Developed a quiz system architecture, including question flow, scoring logic, and result handling
- Implemented a pending validation pipeline for image posting to ensure content quality and moderation control
- Contributed to UX improvements to enhance usability and user interaction flow across quiz and listing features

Blockchain-Based NFT Remittance Platform | NFTPadala, Hackathon 2025

June 2025

JavaScript/TypeScript · Next.js

Frontend

- Developed frontend interface aligned with blockchain-based remittance architecture
- Collaborated on UI system design for NFT transaction workflows and asset transfers
- Improved user interaction flow for digital remittance and transaction tracking processes

Smart Health Information & Navigated Records Integration | SHINRI

May 2025

Python · Docker · PHP · PL/SQL · Laravel · Oracle PL/SQL

Full Stack

- Integrated healthcare record systems using Oracle stored procedures for internal data consistency
- Engineered data-driven workflows for patient management and clinical operations
- Designed a multi-branch workflow system supporting infirmary-level coordination and processing

Search Engine Optimization & RBAC | National Youth Day 2025

May 2025

JavaScript/TypeScript · Next.js · PostgreSQL · Supabase API

Full Stack

- Optimized application for high-traffic usage, supporting 50,000+ user visits during the event period
- Implemented SEO strategies using Next.js to improve search visibility and organic reach
- Designed and integrated role-based access control (RBAC) for secure blog content management and publishing workflow
- Structured backend content permissions to separate admin, editor, and public user roles

Ticketing System & External System Integration | Auro

Jan 2025 - May 2025

JavaScript/TypeScript · PostgreSQL · Express.js · Next.js

Full Stack

- Built a scalable backend API for a centralized ticketing system with external system integrations
- Implemented a secure validation layer, ensuring ticket authenticity and status integrity
- Enforced strict API access control, preventing unauthorized external modifications
- Designed centralized system architecture for cross-platform service integration

Mobile Application Productivity Tool | Billang

Jan 2025 - May 2025

JavaScript/TypeScript · SQLite · Expo Router

Full Stack

- Developed a mobile budgeting application with a structured financial tracking system
- Implemented offline-first data persistence using SQLite for local storage reliability
- Designed a streamlined UX flow for fast and efficient expense logging

Listing & Appointment System | Gupiro

Aug 2024 - Dec 2024

JavaScript/TypeScript · PostgreSQL · Next.js

Full Stack

- Designed search-driven UI/UX optimized for service discovery and appointment booking
- Developed a product listing system aligned with business and operational requirements
- Built an admin verification system for validating business legitimacy and platform trust

AWARD

Quantum Computing & Blockchain Hackathon

Champion, June 2025

Quantum Computing Society of the Philippines

CERTIFICATIONS

Understanding Database Development and Creating Mockups in Figma

Ateneo de Naga University

Ateneo Computer Programming Competition - Freshmen Edition

Ateneo de Naga University

Smartbooks And Power BI - Smartbooks Advance With Analytics

Ateneo de Naga University

2024

Idea2Startup Bootcamp

Ateneo de Naga University

Nov 25, 2024

SEMINARS

Navigating Artificial Intelligence for Social Good

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Game Prototyping w/ Visual Scripting

Peter Andrew Gayanilo - Soon Science Inc. | Designer

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Building a Personal Brand in Tech, Tech Entrepreneurship, and Startup Ecosystem

Bryl Kezter Lim - PockeDevs, Co-founder, and CTO | BASE404, Founder

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Building a Personal Brand in Tech

Armando Dy Kow Sta Cruz III - Clark Outsourcing | Full Stack Developer

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Streamlining Development: Navigating the World of DevOps

Jose Mark Tandog - Accenture, DevOps, and RPA Lead

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Problem, Impact, & Solution/Product/Service

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Market Opportunity, Business Model, Competition

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Traction & Validation, Market Strategy (GTM)

Dani Matining, Strategy Manager, MYNT - Globe Fintech Innovations, Inc.

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Financials, Team, and Roadmap

Brian Lacanlale

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