

JOHN MARK CAPONES

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Rodriguez Rizal

ASPRING SOFTWARE DEVELOPER | CLOUD & DEVOPS

Results-driven IT student with extensive hands-on experience in full-stack development, DevOps, cloud engineering, and AI integration. Skilled in designing and deploying scalable, secure, and accessible systems for enterprise-grade and public sector projects. Proven leadership in project delivery, team management, and implementing industry-grade best practices, including ISO 27001-aligned data security and governance.

CORE TECHNICAL COMPETENCIES

Next.js, Nuxt.js, NestJS, Laravel, React, React Native, PHP, JavaScript, Python
PostgreSQL, Supabase, Cloudflare R2, Prisma, TypeORM, AWS S3, AWS DynamoDB
Git & GitHub Actions, Railway, Render, Cloudflare (DNS, CDN, Security), CI/CD

Architecture & Systems:

Modular Monolithic Architecture, Monolithic & Microservices approach, Domain Driven-Design, MVC, DTO's, MVVC, RBAC, PBAC, ABAC, REST API, GraphQL, WebSockets, MCP, Load Balancer, Zero Trust, API Gateway, CDN, Edge, Cron, Background Services, Message Queues

VPS, Cloud, Render, Heroku, AWS EC2, Digital Ocean, Railway, Automation with n8n & Make.com

Project Management Tools:

Jira, Slack, Monday.com, Zenhub, Discord, Notion

PROJECTS & CAPSTONE EXPERIENCE

CampusConnect – Public High School System (Rodriguez, Rizal)

Lead Developer, Designer, DevOps, Project Manager southville8bnhs.com

Designed and deployed a comprehensive LMS, CMS and administrative system for a public high school (3,000+ users), integrating AI-driven navigation and automation.

Key Features & Responsibilities:

- Management Modules: Students, Teachers, Clubs, Events, Schedules, Buildings, News, Gallery, Quiz System with advanced anti-cheating mechanisms, and Learning Management for PDFs, PPTs, and other resources.
- System Architecture: Modular Monolithic Repository with Domain-Driven Design (DDD) for maintainable and future-proof development.
- Frontend & Backend: Next.js (Website), React Native (Mobile), C# (Desktop), NestJS(Backend), Fastify
- Database & Storage: Supabase as primary database (with full security and real-time features), Cloudflare R2 for object storage, including image and video optimization for fast delivery.
- Cloud & DevOps: Deployment on Render and Vercel, CI/CD pipelines with GitHub Actions, comprehensive Cloudflare integration (CDN, caching, DDoS protection, firewall, Zero Trust security), API Gateway implementation, SSL certificate management.
- Security & Compliance: ISO 27001-aligned data security practices, data retention and deletion policies, audit logging, real-time monitoring using Sentry and Datadog.
- Performance & Scalability: Load balancing, horizontal scaling, and real-time database features to support 3,000+ users.

- SEO & Social Integration: SEO best practices (Google), social media integration (Facebook, Twitter).
- AI & Automation: Integration with OpenAI, Google Gemini, Claude, and custom automation pipelines to enhance system navigation and user experience.
- Project & Team Management: Agile workflow management using Slack, Zenhub, Jira, and Notion to track tasks, sprints, and CI/CD pipelines; ensuring timely, high-quality delivery of system modules.

Other Projects:

Xiraya – E-Commerce Platform

Full Stack Developer

Designed and developed a full-featured e-commerce platform using Laravel and Nuxt.js, leveraging Laravel's built-in ecosystem and conventions for rapid, secure, and maintainable development.

Tech Stack: Laravel, Nuxt.js, MongoDB

Deployment: Laravel Cloud, Cloudflare, Git, Github

- Built a full-stack e-commerce platform using Laravel (MVC) with Nuxt.js frontend and RESTful APIs.
- Leveraged Laravel built-in features (auth, middleware, validation, queues) for secure and maintainable development.
- Integrated MongoDB for flexible product and order data modeling.
- Deployed via Laravel Cloud and optimized delivery using Cloudflare CDN, SSL, and caching.

Pharmacy Management System

Full Stack Developer

Designed and developed a hybrid pharmacy management system using Laravel and React, integrating a real-time inventory platform with a C# WinForms POS application to support sales processing, analytics, and operational efficiency.

Tech Stack: Laravel, React, PostgreSQL, C# (WinForms)

Deployment: Laravel Cloud, Cloudflare, Git, Github

- Developed a hybrid pharmacy system with both web and desktop components, combining Laravel (MVC) backend, React frontend, and a C# WinForms POS application with receipt printing.
- Implemented a comprehensive inventory management system using FIFO-based logic with real-time stock updates.
- Integrated real-time features using Laravel WebSockets for inventory changes, POS synchronization, and dashboard updates.
- Built an analytics dashboard for inventory tracking, sales monitoring, and operational insights.
- Implemented secure email notifications (Zoho Mail) and role-based access control for administrative and cashier workflows.

Cloud-Based Media & Metadata Management Platform

Full Stack Developer

Designed and implemented a cloud-native media management system that stores user-uploaded files in Amazon S3 while maintaining fast, scalable metadata and access control using DynamoDB.

Tech Stack:

Backend: Fastify / Laravel / NestJS (example)

Storage: Amazon S3

Database: Amazon DynamoDB

Security: IAM roles, pre-signed URLs

Infrastructure: AWS Cloud-native services

EDUCATION & CERTIFICATIONS

Bachelor of Science in Information Technology
 Collegio De Montalban

EXTRACURRICULAR ACTIVITIES

Auditor, Membership Director, Sandbox Club
 Tech-Programming Club