

John Kurt Russelle Marmol

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SUMMARY

I'm a dedicated software engineer who enjoys solving problems and turning them into simple, user-friendly solutions. I work well with others, love learning new things, and have achieved success in hackathons and freelance projects.

TECHNICAL SKILLS

- Front-End Development (TypeScript, Next.js, React.js, React Native, Redux, Electron.js, Vite.js, Tailwind, Shadcn/UI, Sass, Bootstrap, Hero UI)
- Back-End Development (TypeScript, Node.js, Express.js, NestJS)
- ORM (Prisma & Sequelize)
- Package Manager (NPM, Yarn, Bun)
- Database Management System (PostgreSQL, MySQL, MongoDB)
- Software Development Tools (CLI Bash, Postman, Postbird, Git, VSCode, Expo Go, Android Studio, React DevTool, Docker, GitHub Actions)
- Cloud Platform (GitHub, Google Console, AWS, Vercel, Neon, Render, Cloudinary, Microsoft 365 Business, Expo, Jira, Docker Hub)
- UI/UX Designing (Figma)
- Backend as a service (Firebase & Supabase)

EDUCATION

Bachelor of Science in Computer Engineering

2021 – 2025

ICCT Colleges Foundation Inc. – College

Electrical Installation Maintenance

2015 – 2021

Malanday National High School – Junior & SHS

Malanday Elementary School – Primary

2009 – 2015

PROFESSIONAL EXPERIENCE

Full-Stack Engineer Intern

April 2025 – June 2025

MGKK ICT Services - Internship

- Developed a smart home system using Expo (React Native), Next.js, and NestJS
- Built GraphQL API using the code-first approach in NestJS with PostgreSQL
- Applied MVP pattern per backend module and implemented JWT-based authentication and authorization
- Integrated Gmail SMTP for email notifications in the backend
- Used Apollo Client for GraphQL integration on the frontend
- Translated Figma designs into functional UI and maintained code quality with ESLint and Prettier
- Participated in code reviews, tested features, and documented development configurations

Full-Stack Engineer

December 2021 – April 2025

Kuma Technologies - Freelance

- Developed web, mobile, and desktop applications using Next.js, Expo (React Native), and Electron.js
- Implemented Redux Toolkit for state management and followed SOLID, KISS, and DRY principles
- Built and maintained a backend using NestJS (MVC pattern) and enforced code quality using ESLint and Prettier
- Translated Figma designs into fully functional software
- Contributed to and created open-source libraries for React Native and Node.js
- Set up CI/CD pipelines with GitHub Actions, used Git for version control
- Configured Microsoft 365 Business emails

HACKATHON & COMPETITION

Innovation and Technology Fair – Exhibition & Participation

April 2nd – 3rd, 2025

De La Salle University

- Exhibit & presented our project that helps patients and users identify the potential causes of their pain using AI RAG.

Engineering Day 2025 – 1st Runner Up

March 6th – 7th, 2025

ICCT Colleges Foundation, Inc.

- Developed a kiosk & mobile apps for school system to automate the process of requesting and releasing of records and credentials.

C(old) (St)art Hackathon 2024 – Fan Favorite UX Design

Oct 19th, 2024

Old.St Labs

- Design a web application that helps reseller and buyer to ship their items with the help of a courier service.

D.A.T.A Wave 2024 Hackathon – Participation

Sept 10th – Nov 15th, 2024

Bank of the Philippine Islands (BPI) & Eskwelabs

- Submitted a project that helps HR to report performance of their employees using AI and Machine Learning.

AppCon 2023 – Top 20 Finalist

Dec 1st, 2023 – June 14th, 2024

OTis Philippines Inc.

- Developed Care Ease, a mobile application that helps users and patients identify the potential causes of their pain using AI.

InnOlympics 2024 – Top 10 Finalist

April 15th – 19th, 2024

Google Developer Student Club (GDSC) – Pamantasan ng Lungsod ng Maynila (PLM)

- Developed a social platform for missing persons and their families to connect and share information.

AI Hackathon – Participation

March – April, 2024

Connex Global Solutions

- Developed a chatbot for a company to help customers with their inquiries.

Innovation Track – Top 5 Finalistss

Nov – Dec 15th, 2023

Huawei ICT Academy

- Developed Care Ease, a mobile application that helps users and patients identify the potential causes of their pain using AI.

ITech Hackathon 2023 – 2nd Runner Up

June 29th – 30th, 2023

ICCT Colleges Foundation, Inc.

- Developed an application for getting a million e-books for free.

Show us ur Rizz – Champion

June 5th – 17th, 2023

Google Developer Student Club (GDSC) – University of San Carlos (USC)

- Developed an application for getting a million e-books for free.

UnBlok Hackathon – People Choice Award

April – May, 2023

The BLOK

- Developed an Electronic Health Record (EHR) System using Blockchain technology.

PROJECT BUILT

Care Ease

Expo, React Native, TypeScript, Node.js, PostgreSQL, Express.js, Google Gemini Model, Three.js

- Personal mobile healthcare application. It empowers users to quickly identify and understand physical pain using an interactive 3D human model and AI-powered diagnostics.

ERDHub

React.js, Next.js, TypeScript, Reactflow, Tailwind, HeroUI

- Open Source SaaS platform for developers to visually design and manage Entity-Relationship Diagrams (ERDs).

PyrTrack

React Native, Expo, TypeScript, Google API (Maps, Geolocation, Maps JavaScript API, Directions)

- A mobile app enabling users to report fire incidents instantly, allowing the Bureau of Fire Protection (BFP) to respond quickly and efficiently.

react-native-otp-input

TypeScript, React Native, create-react-native-library

- Open Source React Native OTP Input a lightweight, customizable, and fully typed OTP (One-Time Password) input component built for modern React Native applications.

KumaPOS

React Native, Expo, Node.js, NestJS, Prisma, PostgreSQL, React Native Reusable UI, Cloudinary, Google Auth SK, TypeScript

- Developed a Point of Sale system for small businesses, with a focus on user experience and performance.

DiReCT: Digital Record and Credential Transaction

React Native, Expo, Node.js, NestJS, Prisma, PostgreSQL, Cloudinary, Electron.js, Raspberry PI 4, Next.js, Google API (Maps, Geolocation, Directions, Maps JavaScript), TypeScript

- Developed a kiosk & mobile apps for our thesis, our goals is to help the school to automate the process of requesting and releasing of records and credentials.

CE-RevU (Civil Engineering Review University)

React Native, Expo, NestJS, Node.js, Prisma, TypeScript, PostgreSQL, Facebook Auth SDK, Google Auth SDK, Next.js

- Developed a mobile application for Civil Engineering students to review for their curriculum.

MediBlok

React Native, Expo, JavaScript, Node.js, PostgreSQL, Express.js, Solidity

- Developed a web application for generating QR codes for school attendance.

Ripe Oculus

Next.js, TypeScript, TailwindCSS, Shadcn/UI, Prisma, Node.js, PostgreSQL, Google Gemini Model

- Developed a application for analyzing the ripeness of fruits using AI.