

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
<i>ICCT Colleges Foundation Inc. – College</i>	
Electrical Installation Maintenance	2015 – 2021
<i>Malanday National High School – Junior & SHS</i>	
<i>Malanday Elementary School – Primary</i>	2009 – 2015

PROFESSIONAL EXPERIENCE

Full-Stack Engineer Intern	April 2025 – June 2025
<i>MGKK ICT Services - Internship</i>	
<ul style="list-style-type: none">• 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
<i>Kuma Technologies - Freelance</i>	
<ul style="list-style-type: none">• 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
<i>De La Salle University</i>	
- 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
<i>ICCT Colleges Foundation, Inc.</i>	
- 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
<i>Old.St Labs</i>	
- 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
<i>Bank of the Philippine Islands (BPI) & Eskwelabs</i>	
- 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
<i>OTis Philippines Inc.</i>	
- 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
<i>Google Developer Student Club (GDSC) – Pamantasan ng Lungsod ng Maynila (PLM)</i>	
- Developed a social platform for missing persons and their families to connect and share information.	
AI Hackathon – Participation	March – April, 2024
<i>Connext Global Solutions</i>	
- Developed a chatbot for a company to help customers with their inquiries.	
Innovation Track – Top 5 Finalists	Nov – Dec 15th, 2023
<i>Huawei ICT Academy</i>	
- 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
<i>ICCT Colleges Foundation, Inc.</i>	
- Developed an application for getting a million e-books for free.	
Show us ur Rizz – Champion	June 5th – 17th, 2023
<i>Google Developer Student Club (GDSC) – University of San Carlos (USC)</i>	
- Developed an application for getting a million e-books for free.	
UnBlokC Hackathon – People Choice Award	April – May, 2023
<i>The BLOKC</i>	
- 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.