

John Carlo N. Camara

Software Engineer

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SUMMARY

Software Engineer with ~2 years shipping backend features on production systems, dynamic document generation workflows, and real-time operational dashboards. Full-stack capable (React/Next.js, Node/Express, PostgreSQL/MongoDB/Redis) with hands-on experience in API design, database schema modeling, authentication, and Docker/CI-CD deployments. Seeking a software engineering role within a collaborative team culture that values clean architecture, code quality, and technical growth.

TECHNICAL SKILLS

- **Backend:** Node.js, Express.js, Next.js (API Routes), REST APIs, Microservices Architecture, JWT/session-based Auth
- **Databases & ORMs:** PostgreSQL, MySQL, MongoDB, Redis, Firebase, Prisma, Drizzle ORM
- **Frontend:** React.js, TypeScript, JavaScript, HTML5, CSS3, Flutter/Dart
- **Cloud & DevOps:** AWS S3, Docker, Dokploy CI/CD, Reverse Proxy Configuration, Vercel, Linux server administration
- **Tools:** Git/GitHub, Figma, AI-assisted development (Cursor, Claude, Copilot)

EXPERIENCE

Junior Software Engineer (Contract) — iFORT Pty Ltd

Aug 2025 – Jul 2026

Remote (Perth, WA)

- **Digitized legacy document workflows** by mapping static Excel and PDF templates into structured database schemas and dynamic web forms, **reducing report-generation time from hours to minutes per batch.**
- Delivered a real-time financial dashboard using a **stale-while-revalidate** fetching strategy, giving leadership live visibility into revenue and KPI targets and eliminating a recurring manual reporting cycle.
- Led design and build of a centralized HR module (timesheets, leave, accruals, reimbursements) inside the company's internal platform, replacing spreadsheet-based tracking for a **10–30-person workforce** and **saving 5+ hours/week of manual admin work.**
- Automated contract pricing by engineering a formula engine that evaluates spreadsheet-style calculations across relational rows with embedded JSON, **eliminating manual calculation errors** on every contract processed.
- Owned requirements gathering and stakeholder alignment for a real-time field flow tests data system, working directly with field technicians and admins to translate business needs into field flow logic, formula rules, and report specs.
- Built real-time data sync between field technicians and admins using WebSockets, cutting per-test turnaround from about an **hour to near-instant** — the moment a technician submits data, a client-ready PDF report is immediately generatable for the admin.

Software Engineer Intern — Cavite State University

Feb 2025 – Aug 2025

Bacoor, Cavite, Philippines

- Built the transactional database layer and API routes for an offline-first Point of Sale system in Express.js and PostgreSQL, passing **ACID-compliance** testing across concurrent retail transactions with zero data-integrity failures.
- Authored backend architecture documentation and enforced a standardized Git branching model through peer code review, adopted across incoming engineering cohorts and reducing merge conflicts.
- Co-led sprint planning and scope-definition sessions in an **Agile framework**, keeping release milestones on schedule across a 6-month internship.
- Refactored legacy authentication and state-management endpoints for the university's enrollment portal, resolving recurring routing bugs and measurably reducing query response times.

Freelance Web Developer — Self-Employed

Aug 2024 – Aug 2025

Remote, Philippines

- Owned end-to-end backend architecture (API design, database schemas, authentication) for 2 client-facing production web apps, including an e-commerce platform for a rice dealer, partnering with frontend collaborators to launch from concept to production.
- Integrated PayMongo payment processing with webhook-driven transaction reconciliation, enabling reliable checkout flows across both client projects.
- Deployed and maintained client applications on Vercel, owning environment configuration and production release management.

PROJECTS

U Do Note (Thesis Project)

Feb 2024 – Feb 2025

Flutter, Firebase, OpenAI API

- Built an AI-powered note-taking app for a college thesis, featuring OCR and 11 active-learning methods (Leitner system, spaced repetition, etc.), deployed and published on the Google Play Store.
- Won the Best Capstone award; owned the core backend features and most of the frontend (teammates handled design and thesis documentation).

PCSO Lotto API

Sep 2024 – Feb 2025

Node.js, Express.js, Redis, Docker, Linux

- Built a web scraper for lotto draw results and containerized it with Docker, deploying to a self-managed Linux VPS via Dokploy for automated CI/CD and reverse-proxy routing with minimal manual ops overhead.
- Designed a **request-locking cache strategy** that prevents cache stampedes by queuing concurrent requests behind a single in-flight fetch, protecting the upstream source from redundant load during traffic spikes.

EDUCATION

Bachelor of Science in Information Technology — Cavite State University

Sep 2022 – Sep 2025

Cavite, Philippines