

JADE MARK ANGELO BONIFACIO

Full Stack Software Engineer

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Full Stack Software Engineer with 2 years of professional experience on a large-scale legacy-to-web modernization, plus production-grade personal projects — one live with real users. Owns problems end to end, from data model and API design through realtime infrastructure to UI; ships with tests and CI by default; bilingual EN/JP work experience.

EMPLOYMENT

Research & Development Engineer · Advanced World Solutions, Inc. — Makati City Dec 2024 — Present

- Core full-stack engineer across the full 2-year modernization of a ~420-screen Japanese property-management platform (legacy C#/Java Struts/Oracle PL-SQL rebuilt as a React 18 + TypeScript / Node.js web app) on a 60+ engineer bilingual EN/JP team — 206 pull requests, with code landed in 317 screen modules across all 11 subsystems.
- Delivered pre-UAT feature work on 23 screens: built 9 screens/dialogs end to end (spec → implementation → integration test → customer UAT), ranking top 30% of 61 implementers at 2× the team median, plus a quick-search feature across 13 more screens and a shared subsystem header.
- Top-3 defect resolver on the 9-engineer UAT team — owned 190 customer-reported defects across four trackers and shipped 169; root-caused shared-component bugs into single-PR fixes that closed issues on 30+ screens at once.
- Diagnosed new-vs-legacy regressions by reading the C#/Java/PL-SQL legacy source; wrote bilingual JP/EN root-cause reports to the customer's tracker; built team automation on Claude Code (Puppeteer repro/verification driver, screen-navigation tracer, Slack review-request generator).
- Shipped a QR-code Parking Lot System delivering realtime slot availability — token-authenticated WebSockets, AWS EC2 hosting, event-driven SNS/SQS notifications.

Freelance Web Developer · Client and local-government projects — remote 2024

- Delivered client websites end to end — scoping and pricing through build and handoff; built a barangay spot-map web app for local-government use.

Quality Assurance Tester Intern · NOAH Business Applications — Makati City Jun — Aug 2023

- Executed test cases for enterprise ERP software and produced QA documentation.

RECENT PROJECTS

ScoutBoard — realtime marketplace platform · NestJS · Next.js · MongoDB · Redis · Socket.IO · OpenAI API 2026

- Open pages update in realtime with zero refetches: Socket.IO gateway broadcasts into per-entity TanStack Query caches, with Redis cache-aside (60s TTL) invalidated on every write path.
- Denormalized counters stay drift-free via atomic \$inc plus a reconciliation cron; LLM analyst endpoint returns structured JSON, cached per listing (1h TTL); Jest failure-path tests assert absence of side effects; CI on every push.

HTTP Monitor — realtime monitoring platform · NestJS · Next.js · MongoDB · Redis · Socket.IO 2025, rebuilt 2026

- Cron scheduler pings endpoints, persists to MongoDB, and broadcasts results over Socket.IO to a live dashboard; Redis cache-aside plus an atomic INCR/EXPIRE rate limiter protecting the API.
- Jest suite with an enforced coverage threshold whose failure-path test caught a real outage-handling bug (skipped cache invalidation and broadcast) before release; provider-agnostic LLM uptime summaries.

JF & The World — collaborative map app · live at [us-and-the-world.vercel.app](#) 2026 — Present

- Two-user collaborative map with real users: pins, multi-visit journals, and photo galleries on Mapbox GL; Supabase (PostgreSQL) with row-level security, realtime sync, webhook-triggered VAPID web push via Edge Functions, and signed Cloudinary uploads.

SKILLS

Front-End	React, Next.js (App Router, Server Components), TypeScript, Tailwind CSS, shadcn/ui, Material UI
Back-End	Node.js, NestJS (modules, DI, guards/pipes/interceptors, gateways), Python
Data	PostgreSQL/Supabase (RLS), MongoDB, Redis (caching, rate limiting, atomic counters), Oracle/PL-SQL · TanStack Query/Table, Zustand
Cloud & AI	AWS (EC2, S3, SNS, SQS), Vercel, Docker, GitHub Actions · WebSockets, Socket.IO · OpenAI API, Claude Code · Jest, Git/PRs, Agile/Scrum, Jira, Figma

EDUCATION

B.S. Computer Science — Cum Laude
Saint Louis University, Baguio City · Aug 2020 — Jun 2024

CERTIFICATES & LANGUAGES

AWS Certified Cloud Practitioner (2026) · PhilNITS (FE) · TOPCIT · Harvard CS50x · NVIDIA Deep Learning Workshop
Filipino (native) · English (highly proficient) · Japanese (JLPT N4 — bilingual EN/JP work experience)