

John Necir E. Rebellion

Senior Full-Stack Engineer | AI / LLM Application Builder

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PROFESSIONAL SUMMARY

Senior full-stack engineer with 9+ years building scalable, secure backend systems and shipping AI-powered product features. Specialises in Go, Node/TypeScript, and Svelte/React across fintech, e-commerce, legal-tech, and logistics — currently hardening enterprise warehouse and delivery platforms (AWS, Terraform, OAuth2, observability) for Australian-market rollout. Integrates LLMs into production: RAG-style search, OpenAI/Anthropic API features, and prompt-engineered workflows, plus payment, cloud, and microservice integrations. Delivers with distributed teams across Australia and the US, working from Manila.

KEY SKILLS

Languages	Go	JavaScript/TypeScript	Python	C#	SQL				
Backend & APIs	REST	tRPC	Microservices	Repository/ORM	WebSockets	OAuth2	Event-driven & async jobs		
Frontend	React	React Native	Svelte/SvelteKit	Next.js	Astro	Chakra UI	Bootstrap		
AI / LLM (application layer)	OpenAI GPT	Anthropic API	Retrieval-augmented search	Prompt engineering	Algolia AI search	DeepL	ReplicateAI		
	OpenCV / ML integration								
Cloud & DevOps	AWS (Secrets Mgr, CloudWatch, S3, DynamoDB, Lambda)			Terraform (IaC)	GCP	Vercel	Render	VPS/cPanel	Docker
	CI/CD gates								
Reliability & Observability	Dead-letter queues		Circuit breakers	Idempotent processing	Structured logging	Sentry	Correlation-ID tracing		
Testing	Unit	Integration	E2E	Playwright	Integration-test design				
Databases	PostgreSQL	MySQL	MongoDB	Firebase					
Payments	Stripe	PayPal	SEA/Philippine gateways						
Practices	TDD	Code review	Mentoring	Rapid prototyping					

EXPERIENCE

Senior Software Engineer — 4impact Asia Pacific (Sida4), client: Tyremax ANZ

Remote contractor · Apr 2026 - Present · AU business hours (full AEST overlap)

- Enterprise "ruggedisation" of Tyremax's WMS (Warehouse Management System), TrackMax (delivery tracking), and the WMS Integration Lambda — hardening startup-scale platforms for expansion across ~11 Australian distribution centres.
- Security hardening:** implemented OAuth2 with short-lived access tokens and refresh-token rotation, migrated secrets to AWS Secrets Manager with scheduled rotation, and added CORS/XSS mitigation plus audit logging — shipped to NZ production behind a security regression suite.
 - Resilience & integration:** built idempotent async job processing with deduplication keys, dead-letter queues with bounded retries, and circuit breakers for NetSuite, Celigo, and TrackPOD integrations, eliminating duplicate stock-allocation errors.
 - Observability:** introduced correlation-ID propagation across services and jobs with structured JSON logging to CloudWatch and Sentry, plus lag alerts and replay mechanisms for queue health.
 - Infrastructure-as-Code:** migrated AWS resources to Terraform with S3/DynamoDB remote state and multi-account layout; provisioned Australian environments and tested rollback procedures.
 - Test & deployment safety:** added unit, integration, and Playwright E2E coverage for critical picking/dispatch workflows, gated by CI quality checks required before merge.
 - Delivered in fortnightly UAT sprints with a Brisbane-based delivery team; supported coordinated production deployment and hypercare.

Software Engineer — Micro-Tech U.S.A. (Illinois, USA)

Remote contractor · Feb 2026 - Present · US business hours (AEST-adjacent)

- Deliver custom software and systems-integration work for US-based clients of Micro-Tech, a business-technology solutions provider, working US-aligned hours from Manila.
- Build and integrate full-stack features across client engagements, applying secure-by-default API design and automated testing.

Digital Solutions Developer (Full-Stack) — 4impact, client: Shine Lawyers (Brisbane, AU)

Remote contractor · Jan 2025 - Oct 2025

- Standardised and built class-action registration portals used daily by legal staff and claimants, streamlining case intake.
- Designed and shipped a bulk CSV upload CRUD system enabling multi-table, multi-record updates, cutting manual data-entry effort for case management.
- Built secure APIs and optimised backend workflows, reducing clerical overhead and improving data-entry throughput.
- Collaborated directly with product managers, clerks, and lawyers to streamline integrations across multiple internal systems.

Full-Stack Developer (Independent) — Kopia-Powered Backup System

Philippines · Nov 2024 - Jan 2025

- Built an enterprise-style backup repository system on top of Kopia, providing deduplication, encryption, compression, and incremental snapshots.

- Developed the backend in Go and a reactive UI in Svelte + Bootstrap, with repository management, scheduled backups, and monitoring dashboards.
- Engineered for cross-platform compatibility and resilience for enterprise-scale data protection.

Full-Stack Developer — **snack.software** (Delaware, USA)

Remote · Feb 2023 – Oct 2024

- Contributed core features to a merchant-focused e-commerce platform with a zero-transaction-fee model.
- Led the pivot to online ticketing, reusing existing e-commerce components to accelerate delivery.
- Built an AI-powered language-learning app: GPT-driven search, subscription management, and tutor scheduling.
- Integrated Stripe, PayPal, and SEA payment gateways for monetisation.
- **Stack:** Node.js, Express, MongoDB, Next.js, React, Astro, Firebase, Google Cloud, OpenAI GPT, DeepL, Algolia, ReplicateAI.

Software Developer (Mobile / Flutter) — **SkyDev Solutions Inc.** (Subic, Zambales, PH)

Feb 2022 – Jul 2022

- Built the Android & iOS mobile client for a live-streaming platform using Flutter.
- Integrated real-time streaming APIs and led integration testing for cross-platform deployment.

Software Developer (Full-Stack) — **FDS Asya Philippines Inc.** (Makati, PH)

Feb 2021 – Feb 2022

- Architected a financial-services gateway API unifying multiple providers (bill payments, fund transfer, e-loading).
- Designed a microservices architecture with automatic failover on transaction errors.
- Built an internal portal for accountants to manage client payouts and company earnings.
- **Stack:** Go, Svelte, microservices, REST APIs, cloud deployment.

Freelance Software / AI Engineer — **San Pablo City, Laguna, PH**

2017 – Present

- Build and ship independent products end-to-end, currently developing AI-engineering projects with Claude (Anthropic) and Claude Code — agentic coding workflows, MCP tool integrations, and LLM-driven automation.
- Deliver full-stack and IoT systems across Go, .NET, Svelte, and Flutter — including a Smart Lock IoT system (ESP8266 + .NET + Svelte, WebSocket event streams, NFC and GSM) and a Go + Flutter image-sharpening platform.
- Shipped multiple production systems: Emergency Response System (C# WPF + Google Maps API), POS/cashier systems, alumni management, and a medical-record diagnostic system.

■ SELECTED PROJECTS

AU Logistics Platform — Reliability & Security Hardening. Production case study: hardening a warehouse-management and delivery-tracking platform for rollout across ~11 Australian distribution centres — idempotent job processing, dead-letter queues, circuit breakers, correlation-ID tracing, Terraform IaC. Client/platform anonymised under NDA; full write-up on www.necir.ph.

Financial Gateway API. (in progress) Microservices payment gateway unifying multiple providers behind one gRPC + REST surface, with automatic failover and idempotent transaction handling. Go, gRPC, Redis, Prometheus. Independent reference implementation. Public repo + build-in-public on www.necir.ph.

MetaSharper. (Founder & Developer) Web/mobile app that counteracts social-media image compression via sharpening, contrast, and resolution optimisation. Go image-processing pipeline behind a SvelteKit UI, plus monetisation (ads, IAP, rewarded-video credits); deployed and maintained in-market.

Counterfeit Detection System. ML-assisted detection of counterfeit Philippine peso bills to aid visually impaired users. Python image-analysis backend with a React Native (Expo) client and integrated classification models.

Earlier personal & academic projects (2017–2024, available on request): Home Network Security System (Go + Svelte, ARP-spoofing-based access control), Hand Gesture & Voice-to-Text App (Filipino Sign Language recognition, Python + ML + Flutter), Home Security Facial Recognition (Python + OpenCV), Housing Payments Management System (Go + Svelte), Smart Lock System (ESP32 + Svelte, NFC/2FA), Drowsiness Detection (Raspberry Pi + Python), Answer Sheet/bubble-sheet grading (PHP + Python object detection), Learning Management System, Forest Management Information System (CodeIgniter + GPS + drone imagery), Emergency Response System, Discord game-statistics bot, POS/cashier application, Cancer Charity Management System (C# .NET / Uno), and two Unity3D games.

■ EDUCATION

BS Computer Science — AMA Computer College, Calamba City, Laguna (2017 – 2019)