Nathaniel Nikolai Ladero

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SUMMARY

Backend Developer with 3 years of real-world backend experience building C#/.NET services for payments, wallets, referrals, and access control. Uses AI-assisted development daily and builds and maintains AI tools and open-source projects. Project work also demonstrates frontend capability through React and JavaScript browser extensions, separate from professional backend employment.

EXPERIENCE

Xentra Infotech Solutions Inc. — Remote · 1,000+ commits across 17 repositories

Backend Developer **Jun 2024 – May 2026**

Scope: payments, wallets, referrals, and third-party payment/KYC integrations.

- Cut worst-case payment-query latency on the highest-traffic server from a roughly 60-second timeout to under one second by migrating AWS-hosted services from MySql.Data to MySqlConnector and tuning indexes.
- Implemented JWT, OAuth 2.0, and OpenID Connect authentication with RBAC/ABAC authorization across payment services and admin tooling, and kept production-bound services free of high or critical Snyk findings through dependency scanning and code review.
- Integrated Stripe (custom adapter), PayPal, Uniteller, and Usio payment and KYC flows into the payment services.
- Built and maintained provider-specific adapter code and request/response mapping for those integrations.
- Worked in EF Core with the Pomelo provider against MariaDB/MySQL, tuning SQL alongside ORM queries and versioning schema changes through DbUp.
- Carried service changes across payments, wallets, and referrals microservices through Docker builds and AWS CodeDeploy releases, with S3-backed object storage, versioned Swagger/OpenAPI documentation, and environment-specific configuration per service.
- Wrote xUnit endpoint tests with coverlet coverage over request-validation and data-access paths, keeping changes verified before release.
- Diagnosed and resolved production issues across payment and cash-management services, tracing failures from reported symptoms to SQL and service code, then shipping targeted fixes with endpoint tests and review.

Junior Backend Developer **Jun 2023 – May 2024**

Scope: payments and cash-management endpoints.

- Built ASP.NET Core endpoints for payments and cash-management modules, including request validation, EF Core data access, and endpoint tests reviewed by senior developers.
- Removed N+1 queries and added missing indexes on reporting endpoints, cutting repeated database round trips on report calls.
- Documented endpoints with Swagger/OpenAPI and carried API versioning through active contract changes.

Backend Developer Intern **Mar 2023 – Jun 2023**

Scope: scoped ASP.NET Core and MySQL fixes.

- Completed a four-month internship during the final year of college, working from existing controllers, services, and SQL to isolate defects in assigned modules.
- Prepared small ASP.NET Core and MySQL fixes with endpoint tests, then carried them through the team's Git and code-review workflow.

TECHNICAL SKILLS

Languages: C#, SQL, JavaScript, TypeScript, Python, PHP

Data & Query: MariaDB, MySQL, EF Core/Pomelo, MySqlConnector, MySql.Data, DbUp, query-plan reading, index tuning

APIs & Auth: ASP.NET Core Web API, .NET 6/7/8, microservices, REST, async/await, Swagger/OpenAPI, API versioning, JWT bearer, OAuth 2.0, OpenID Connect, RBAC, ABAC

Cloud & Delivery: AWS S3, AWS CodeDeploy, AWSSDK, Docker, GitHub Actions, CI/CD, Nginx, Linux, Bash, PowerShell

Libraries & Integration: HttpClient/IHttpClientFactory, Newtonsoft.Json, System.Text.Json, CsvHelper, Mustache, PuppeteerSharp, QRCoder, Twilio, SendGrid, Firebase Admin

Payments & KYC: payment and KYC integrations (Stripe, PayPal, Uniteller, Usio)

Security, Testing & Tooling: OWASP Top 10, Snyk, TLS, xUnit, coverlet, Git

AI-Assisted Development: OpenCode, Codex, Claude, LM Studio, Ollama, llama.cpp — assisted coding, review, debugging, and local LLM workflows.

SELECTED PROJECTS

- **Local Harness (personal developer tooling)** — three plugins for session cost/token/cache/context telemetry, V1-to-V2 hook compatibility, and setup tooling. Setup writes agent configuration behind a dry-run manifest, doctor gate, and clean uninstall.
- **Solo-owned, maintained public projects: Gladius / Puppet** — Gladius is a 25-tool headless browser-automation MCP for CDP snapshots, screenshots, and layout assertions. Puppet is a background-safe Windows desktop-control MCP that revalidates one target per call and acts through UI Automation/window messages. Both use typed errors and are published on npm and GitHub Releases.
- **MCP Launcher / Local Memory Index** — launcher resolves local Ghidra/JDK and fronts its analysis server; the SQLite FTS5/BM25 memory index provides read-only local recall with atomic cache rebuild and node:test coverage for query, recall, lifecycle, and hardening.
- **Frontend projects** — React portfolio and JavaScript browser extensions, demonstrating project experience across interfaces and browser APIs.

EDUCATION

La Consolacion University Philippines — BS Information Technology (2019 – Aug 2023)
La Consolacion University Philippines — STEM (2017 – 2019)

Spoken Languages: English — Professional working proficiency · Filipino (Tagalog) — Native proficiency

CERTIFICATIONS

Google IT Automation with Python — Coursera · RFS2G5ZT9GPK
Google IT Support — Coursera · NEBB575RT5LU
API Security Fundamentals — APIsec University (Aug 2023) · FA69CEB39205E003
OWASP API Security Top 10 — APIsec University (Aug 2023) · FC46A72A0806A19E