Christian T. Dataro

AI Software Engineer | ML Delivery (forecasting, recommenders, NLP) | OpenAI-Powered Product Features | Python + TypeScript

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> Open to fully-remote roles with teams in Australia, the UAE, the UK and the US; timezone-flexible. Also open to relocation to Australia with 482 Skills in Demand sponsorship - ANZSCO 261313 Software Engineer, ACS skills assessment in progress.

Professional Summary

Software engineer with an AI/ML engineering background and over five years of production delivery. Spent 18 months as an AI Software Engineer at Omdena shipping ML across four chapters - ARIMA time-series forecasting, recommendation engines, and sentiment and predictive risk models on Pandas, NumPy and scikit-learn, served via FastAPI. Since then has shipped AI into production products on GPT-4, including resume generation and job matching, atop the TypeScript backends and AWS infrastructure those features run on.

Technical Skills

AI / ML: OpenAI API (GPT-4), artificial intelligence and machine learning (AI/ML), TensorFlow, PyTorch, scikit-learn, Keras, Transformers, spaCy, NLTK (NLP / natural language processing), Pandas, NumPy, Polars, SciPy, Statsmodels, OpenCV, FastAPI

Languages: TypeScript, JavaScript, Python, Java, PHP

Backend: NestJS, Node.js, Spring Boot, Django, FastAPI, TypeORM, Mongoose, Zod

Databases: PostgreSQL, MongoDB, MySQL/MariaDB, Supabase

Cloud / Infra: AWS (Lambda, Aurora RDS, S3, CloudFront, Cognito, SQS, KMS, Secrets Manager, API Gateway, EventBridge, SES), Terraform, Terragrunt, Serverless Framework, Docker

Practices: CI/CD (continuous integration and continuous delivery), REST APIs (RESTful web services), microservices, serverless, infrastructure as code (IaC), full-stack development, unit/integration testing, end-to-end (E2E) testing, Agile/Scrum

Testing: Playwright (E2E), Cypress, Vitest, Jest, JUnit + Testcontainers, k6 (load)

Frontend: React 19, Next.js 16, Vue 3 (Composition API), React Native, TanStack (Start, Router, Query), Tailwind CSS 4, Zustand, Vuex, Redux, Redux Toolkit, Radix UI, ShadCN, PrimeVue, AG Grid, Module Federation (micro-frontends), single-page applications (SPA)

Real-time: NATS JetStream, Microsoft SignalR, WebSockets

Observability: Prometheus, Grafana, RUM, Sentry, SonarQube

Payments & Compliance: Stripe, AML/KYC (anti-money-laundering and know-your-customer) workflows, MFA (multi-factor authentication) by SMS/Email OTP and TOTP, role-based access control (RBAC) via CASL and Cognito

Tools: Git, GitHub Actions, Jenkins, Jira, Confluence, Figma, Postman, WebStorm

Professional Experience

Senior Software Engineer | Fortunate Partners

Jan 2026 - Apr 2026 | Full-time

Delivered RoundUp end-to-end - a regulated real-money digital lottery platform spanning five game types (round-up, instant-win, mega-jackpot, mystery-box, and subscription draws) across user-web, admin, kiosk, and mobile channels.

- Architected a 29-module NestJS 11 backend (32 TypeORM/PostgreSQL entities) split into five purpose-built AWS Lambdas - API, async processing, notifications, webhooks, migrations - for independent scaling and deploys.
- Engineered an event-driven draw lifecycle (EventBridge + SQS) that keeps exactly one draw open at a time and auto-allocates prizes on close - eliminating manual draw operations.
- Authored lpfy, a zero-dependency Lazy Partial Fisher-Yates library for CSPRNG-backed winner selection with rejection sampling to eliminate modulo bias, in O(m) memory across billion-scale ranges.

Projects: RoundUp - Digital Lottery & Gaming Platform

Stack: NestJS 11, TypeScript, TypeORM, PostgreSQL (Aurora), Stripe, AWS (Lambda, Aurora RDS, S3, CloudFront, Cognito, SQS, KMS, Secrets Manager, SES, EventBridge), Terraform, Terragrunt, React 19, Vite, Tailwind CSS 4, Zustand, TanStack Query, Radix UI, React Native 0.79, Firebase, SendGrid, OpenAPI (Orval-generated typed clients), Playwright, Mailosaur, accessibility testing (axe-core), Lighthouse CI, Sentry, Jest, lpfy

Senior Frontend Engineer (Maintainer) | GlobalNet Solutions Group Inc

Jul 2025 - Present | Contract

Lead maintainer across GlobalNet's iGaming platforms - a live micro-betting sportsbook, a multi-vendor provider-integration layer, and a casino operator suite - modernizing legacy code and setting engineering standards.

- Built the live micro-betting client (Next.js 16 / React 19) across eight feature modules, streaming per-game state over a NATS JetStream WebSocket on a sport.zone.league.gameId subject into a Zustand store.
- Contributed five Spring Boot (Java 21) services (games, wagering, wallet, backoffice, feed transceiver) and an nVenue SSE-to-NATS transceiver with per-sport translation strategies for basketball, baseball and American football, modeling the full bet lifecycle (open, paid, resulted, settled, failed, voided) over PostgreSQL/Liquibase.
- Documented the platform as code - a C4/Structurizr model, 18 PlantUML sequence diagrams across six services, an architecture decision record (ADR) on active-market snapshots, and root-cause analyses on React 19, CI/CD, API mapping, and test strategy.

Projects: SportsBetting - Live Micro-Betting Platform; SportsBetting BackOffice + API Integrations; Casino Platform - Game Center Admin & Slot Games

Stack: Next.js 16, React 19, Vue 3, Phaser, TypeScript, TanStack (Start/Router/Query), Spring Boot 4 (Java 21), Zustand, Vuex 4, NATS JetStream, Webpack Module Federation, PrimeVue 4, AG Grid 32, Chart.js, Fastify, PostgreSQL, MySQL/MariaDB, Liquibase, Cypress, Playwright, Vitest, JUnit + Testcontainers, Structurizr (C4), PlantUML, Docker, legacy PHP

Senior Software Engineer | CareerTeam Inc

Jan 2025 - Jul 2025 | Contract

- Refactored a legacy codebase into 3 configurable Turbo monorepos (job-seeker, employer/provider, case-management) serving 15 US-state workforce agencies, cutting build and maintenance overhead ~30%.
- Designed a NestJS 9/10 + MongoDB backend spanning 130+ modules, 150+ Mongoose schemas and 154 Swagger-documented controllers exposing roughly 1,170 REST endpoints across the veteran career domain.
- Shipped federal WIOA compliance reporting - PIRL participant-record generation, soft-eligibility screening, a review-board workflow, and SFTP delivery of generated submission files - alongside 14 scheduled jobs driving notifications and eligibility.

Stack: Next.js 13, React 18, TanStack Query, Redux Toolkit, MUI (X Data Grid), TypeScript, NestJS 9/10, MongoDB, Mongoose, CASL, OpenAI (GPT-4), AWS (Cognito, EKS, SQS, SNS, Secrets Manager, CloudWatch, WAFv2, S3, ECR), Terraform, Kubernetes, Helm, Redis, Prometheus, Winston, Form.io, FFmpeg, docx, ExcelJS, Puppeteer, @react-pdf/renderer, SFTP, Swagger, Turbo, Jest, mongodb-memory-server, GitHub Actions, SonarQube, Docker

Mid Frontend Engineer | Cubework Inc.

Aug 2024 - Jan 2025

- Built an Admin Console (CMS for users, super admin, marketing, tester, customer) and a Tenant Portal (transactions, auto-pay, card payments, warehouse rentals).
- Integrated a Pay-and-Bill payment gateway, CRM customer management, and IAM authorization; implemented the Supabase data layer.

Software Engineer | Uno Dos International Gaming Corp.

Oct 2023 - Aug 2024

- Delivered real-time odds, bets, wallet and payout updates over a dual-channel Microsoft SignalR design - a public broadcast feed plus a per-user private feed with subscription registration and automatic reconnect - across six React SPAs and 334 API client modules, on Redux + Redux Thunk state.
- Reduced UI latency ~20% by adding request caching, refetching, and optimistic updates to high-traffic API calls, and pushed session revocation over the realtime channel.

AI Software Engineer | Omdena

Feb 2022 - Aug 2023

- Improved forecasting accuracy by preprocessing data with Pandas/NumPy and hypertuning ARIMA time-series models (statsmodels), served via FastAPI, and built recommendation engines plus predictive and sentiment models across four ML chapters.

Web Developer | Multi Development and Construction Corporation

Oct 2021 - Feb 2022

- Delivered course and content delivery for employees alongside a built-in CMS for administrators to author, publish, and manage learning materials.

Education

BS Computer Science, specializing in Software Engineering - FEU Institute of Technology, Manila

Certifications

PMI Project Management Ready - Project Manager (Score: 90 / 2025) | Information Technology Specialist: Python (Score: 91 / 2023) | MTA: Introduction to Programming Using Java (Score: 99 / 2021) | CCNAv7: CyberOps Associate | CCNAv7: Introduction to Networking | CCNAv7: Switching, Routing, and Wireless Essentials | PTE Academic: 59 (Certified 2019 - retaking for 79+ Superior English)