

Joseph Karl Crisostomo

Full-Stack Developer

Manila, Philippines • joseph.dev.ph@gmail.com • github.com/kathulhur • linkedin.com/in/joseph-crisostomo • hello.hackwithsef.xyz

SUMMARY

Full-stack engineer focused on real-time, data-heavy web applications. I turn messy operational workflows into clean, reliable products teams actually use — shipping in small, demoable increments across the full stack, from Rails PWAs to containerized AWS infrastructure. Technology-agnostic and quick with new tools; I work iteratively and communicate clearly across very different backgrounds.

EXPERIENCE

Backend Developer — DOST-ASTI (Advanced Science and Technology Institute) Feb 2024 – Mar 2026

On-site · Department of Science and Technology, Philippines

- Introduced unit testing to a previously untested codebase, raising coverage from 0 to approximately 90% and materially improving system maintainability and integrity.
- Optimized database queries through in-depth inspection and root-cause analysis, improving application performance.
- Managed Dockerized services across environments — first on an on-premise Ubuntu Linux server, then on AWS after migration, orchestrating containers with Elastic Kubernetes Service (EKS).
- Built an automated build pipeline for inference, AI-training, and dataset-validation containers (source in S3, builds in CodeBuild, images in ECR), and automated infrastructure provisioning with CloudFormation for fast, repeatable deployments.
- Integrated AWS data services — RDS (core database), ElastiCache/Redis (caching), and Amazon MQ (message broker) — and ran smoke and load tests with Grafana K6.

Web Developer, Intern — Dashlabs.ai

Aug 2022 – Sep 2022

Remote

- Contributed to the maintenance of the platform's Patient Management Service and handled customer queries across multiple channels (email, chat).

PROJECTS

AI-as-a-Service Platform — Designed a platform standardizing how AI models are developed, deployed, and served across DOST institutes, with a model/dataset repository and one-step model exposure — cutting AI-model integration from roughly 2–3 months to days. *Python · AWS · Docker · Kubernetes.*

Aqualytix (aqualytix.hackwithsef.xyz) — Built and deployed solo, end-to-end: an offline-first PWA that digitizes a water district's manual pumping-station logs, with per-station alert thresholds, trend charts, and server-generated PDF reports; shipped in seven deployable vertical slices to AWS with Kamal (zero-downtime) and CloudWatch/SNS alerting. *Ruby on Rails · Hotwire · PostgreSQL · PWA · AWS.*

KuryenteWatch (infanta.kuryentewatch.app) — A real-time, community-sourced electricity-outage map with per-barangay push alerts, built as a Rails 8 Hotwire PWA on an all-database real-time stack. *Rails 8 · Hotwire · Leaflet · Web Push.*

Payout na po ba? — Scraped and NLP-coded 55,000+ public comments with a custom Taglish/Bisaya lexicon coder to pinpoint the top beneficiary pain point, packaged into a board-ready recommendation. *Node.js · Playwright · NLP · Data pipeline.*

SKILLS

Frontend: React, TypeScript, Next.js, Hotwire (Turbo/Stimulus), HTMX, Leaflet, HTML, CSS, JavaScript

Backend: Ruby on Rails, Node.js, Python, Django, REST APIs, WebSocket/SSE, PostgreSQL, SQL

Cloud & Infrastructure: AWS (EKS, EC2, CloudFormation, S3, CodeBuild, ECR, RDS, ElastiCache/Redis, Amazon MQ, CloudWatch, SNS), Docker, Kamal, Kubernetes, Linux (Ubuntu)

Testing & Tooling: Unit/integration testing, Playwright, Grafana K6, Git, PWA / offline-first, Claude Code

Strengths: Adaptive and technology-agnostic, iterative delivery, clear communication across varied backgrounds

EDUCATION

B.S. in Computer Science, Cum Laude — Polytechnic University of the Philippines

2019 – 2023

DOST-SEI Scholar — S&T Scholarship Act of 1994 (RA 7687), awarded to top-performing students in priority STEM fields

CERTIFICATIONS

SQL (DataCamp): Introduction to SQL, Intermediate SQL, Joining Data in SQL, Data Manipulation in SQL, Exploratory Data Analysis in SQL

Boot.dev: SQL, Python, OOP in Python, Go, JavaScript, Linux, AWS, Kubernetes