

Joseph Karl Crisostomo

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Portfolio: <https://kathulhur.github.io> · GitHub: <https://github.com/kathulhur>

SUMMARY

Python developer and full-stack engineer with hands-on experience building cloud-native services, AI/ML deployment pipelines, and automation scripting. I work across Python/Django backends and containerized cloud infrastructure (Docker, Kubernetes, CI/CD), and I pick up new platforms quickly — eager to extend my cloud experience into Microsoft and Azure. I work iteratively (requirements → prototype → deploy → feedback) and collaborate easily with data scientists, DevOps, and non-technical stakeholders.

EXPERIENCE

Backend Developer — Department of Science and Technology, Advanced Science and Technology Institute (DOST-ASTI)

On-site · Feb 2024 – March 2026

- Developed and maintained Python/Django backend services for an AI platform, building automation scripts and the workflows that expose ML models as APIs.
- Built an automated build/deploy pipeline (source in S3, container builds in CodeBuild, images in ECR) — the kind of CI/CD automation that maps directly to GitHub Actions / Azure DevOps.
- Managed containerized (Docker) services and orchestrated them with Kubernetes (AWS EKS), deployed across on-premise Linux (Ubuntu) and the cloud.
- Automated infrastructure provisioning with CloudFormation for fast, repeatable deployments.
- Optimized database queries and Python workloads through in-depth inspection and root-cause analysis, improving performance and scalability.
- Integrated cloud data services: managed relational database, Redis caching, and a message broker for asynchronous workflows.
- Initiated unit testing from 0 to ~90% code coverage; ran automated smoke and load testing with Grafana K6 to enforce code quality and reliability.

Web Developer (Intern) — Dashlabs.ai

Remote · Aug 2022 – Sept 2022

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

PROJECTS

AI-as-a-Service Platform (DOST-ASTI)

Defined the foundational elements of AI development through deployment — including a model/dataset repository and a feature to easily expose hosted models as services. Standardized how models are developed, deployed, and served, cutting AI-model integration from ~2–3 months to a matter of days. Built with Python; hand-written where it counts.

Kuryente Watch — <https://infanta.kuryentewatch.app>

A community app crowdsourcing near-real-time electricity grid status so citizens can see outages at a glance. Piloted an agentic-AI build (Claude Code), using raw-coding experience to catch when the AI drifted off course. Onboarded several community "scouts" and gained strong local support.

SKILLS

- **Languages:** Python, Django, TypeScript, JavaScript, Ruby, Ruby on Rails
- **AI/ML & Data:** ML model deployment pipelines, AI-as-a-Service platform, database query optimization, Redis caching, message broker (async workflows)
- **Cloud / DevOps:** Docker, Kubernetes (EKS), CI/CD (CodeBuild, ECR), CloudFormation, AWS (S3, RDS, ElastiCache, MQ), on-premise Linux (Ubuntu); eager to apply to Azure
- **APIs / Tooling:** REST integrations, Git-based workflows, automation scripting, Playwright, Grafana K6, WebSocket/SSE
- **Strengths:** Adaptive (learns new tools fast), technology-agnostic, strong communicator across varied backgrounds

EDUCATION

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

2019 – 2023