

Kenneth V. Domingo

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Experience

Software Engineer

Thinking Machines Data Science

Taguig City, PH

Jan 2023 – Oct 2024

- Technical lead for the development of the UNICEF Giga DataOps Platform: led a team of 5 data, analytics, and software engineers to architect and develop a [fully open-source](#) master data management platform deployed on Azure Kubernetes Service. V1.0 of the Platform was launched in September 2024 and was presented at the [Open Source Summit](#) in Vienna later that month. At launch, the Platform managed data for 2.1M school records across 141 countries, with near-real-time connectivity data for 93k schools updating every few minutes. The Platform was also being leveraged by 2 downstream applications with 5k monthly users.
- Developed GenAI applications for enterprise clients in the financial sector leveraging Azure OpenAI LLMs: developed responsive chat interfaces and designed backend processes for security and compliance requirements.
- Developed process tooling for an international carbon registry: involved in backend development in Django deployed to a Google Cloud environment and optimized database model design to maintain performant queries.
- Developed an internal geospatial analytics platform for a local telecommunications company: involved in migrating user interface components to a modern tech stack and increasing test coverage.

Software Developer (Freelance)

Stevn Books

Remote

Nov 2022 – Jan 2023

- Developed the API and infrastructure for an inventory management and profit calculator system deployed on DigitalOcean: integrated with PayMongo API to process customer payments and AWS Cognito as a B2C identity provider.

Software Engineer

Demand Science (Cobena Business Analytics and Strategy)

Taguig City, PH

Nov 2020 – Nov 2022

- Developed multiple user interfaces for an internal data lakehouse platform: led the design and development of in-house UI components of the platform. Spearheaded the company-wide adoption of modern frontend tooling using Figma and TypeScript.
- Developed a user-facing tool for a foreign market research firm: involved in the design and development of the backend architecture using Django & Redis deployed to an AWS environment.
- Involved in the development of Gateway, an in-house B2B geospatial analytics platform: led weekly code reviews to maintain quality standards and optimize the team's delivery.
- Developed internal tooling for an FMCG client: initiated the migration from manual testing to automated API testing using Python scripts reducing testing time from 2 days to 30 minutes.

Backend Developer (Freelance)

DetectPH

Quezon City, PH

Mar 2020 – May 2020

- Developed the API for a COVID-19 contact-tracing mobile application written with Express and MongoDB.

Bioinformatics Intern

Philippine Genome Center

Quezon City, PH

Jan 2020 – Feb 2020

- Underwent training in bioinformatics; developed a command-line tool and web application for designing primers for site-directed mutagenesis.

Certifications

Azure AI Engineer Associate

Microsoft [🔗](#)

May 2024

Professional Cloud Architect

Google Cloud [🔗](#)

July 2021

Education

University of the Philippines-Diliman

Aug 2015 – July 2020

BS in Applied Physics (Major in Instrumentation)

- **Thesis:** Compressive sensing: Applications from 1-D to N -D

Publications

Compressively sampled speech: How good is the recovery?

Sept 2020

K. V. Domingo, M. N. Soriano

Proceedings of the Samahang Pisika ng Pilipinas 38 [SPP-2020-4C-04](#) [↗](#)

Frequency domain reconstruction of stochastically sampled signals based on compressive sensing

May 2019

K. V. Domingo, M. N. Soriano

Proceedings of the Samahang Pisika ng Pilipinas 37 [SPP-2019-PB-38](#) [↗](#)

Projects

Banyuhay

[kvdomingo/banyuhay](#) [↗](#)

- Developed a geospatial web app to allow users to locate nearby restrooms with bidets.
- Tools Used: Python, FastAPI, TypeScript, SvelteKit, OpenStreetMaps

Technologies

Languages: Python, Go, TypeScript, Node.js

Backend: Django, FastAPI, Flask, Fiber, Express, Hono

Frontend: React, Svelte, Astro, Next.js

Databases: PostgreSQL, SQLite, Redis, Firestore, MongoDB

DevSecOps: Docker, Kubernetes, Helm, Terraform, Ansible, ArgoCD, GitHub, GitHub Actions, Azure DevOps, Snyk, Prometheus, Grafana

DataOps: Dagster, Google BigQuery, Apache Spark

Visualization & Dashboarding: Apache Superset, Metabase

Cloud Platforms: Google Cloud Platform, AWS, Azure, Vercel, Firebase