

Kathleen Fregoso

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Professional Experience

Co-creator, Software Engineer, QMantis [🔗](#) 01/2022 – present

QMantis is an open-source, easy to set up observability solution for GraphQL APIs, enabling seamless analysis of slow requests, errors, resolver performance, and identification of backend bottlenecks.

- Created telemetry data pipelines: generating (OpenTelemetry), exporting (OpenTelemetry Collector, Prometheus), storing (Promscale/TimescaleDB), and visualizing (Grafana) metrics and traces data.
- Designed custom express-graphql middleware to collect real-time request rate, error rate, and latency.
- Captured and stored real-time metrics and traces data into Promscale/TimeScaleDB.
- Configured Grafana dashboards for visualizing and analyzing traces and metrics data.
- Improved the readability of GraphQL-specific trace data by adding custom error tags and metadata.
- Prototyped two additional/alternative Node.js GraphQL servers: a framework-agnostic apollo-server with observability plugins and a custom-built server for Express-based backends.
- Built qmantis-express, an NPM package that abstracts instrumentation of metrics and traces using OpenTelemetry SDKs.
- Automated deployment of QMantis architecture using Docker.
- Co-authored technical case study and documentation: <https://qmantis.co> [🔗](#)
- Collaborated with a remote team of 4 engineers across 3 time zones (daily standups and pair programming).

Software Engineer, Self-Employed 2020 – 2022

- Zello: Trello-inspired Kanban board (React/Redux, Node.js/Express, MongoDB)
- Chest Bin: Database-backed app to collect and inspect webhooks (Node.js/Express, React, MongoDB, Bootstrap, socket.io)
- AirFleet: App that allows users to filter routes by airline and airport (React)
- ShoppingCart: Database-backed e-commerce app (React, Redux, MongoDB, Node.js/Express)
- Contact Manager: Web app for managing contacts with an async search UI (JavaScript, Handlebars, CSS, HTML)

Various Roles 2016 – 2021

Led grant writing, fundraising, community outreach, and youth education initiatives for various non-profits.

Skills

Backend

Node.js, Express, Go, SQL, PostgreSQL, MongoDB, RESTful APIs, GraphQL, TimescaleDB

Frontend

JavaScript (ES6+) / TypeScript, React, Redux, CSS, HTML, Handlebars, Bootstrap

Misc. Technologies

Docker, Git, Github, Jest, OpenTelemetry, Grafana, Prometheus, Jaeger

Cloud

DigitalOcean, AWS, Heroku

Education

Software Engineering, Launch School 2020 – 2022

MSW, University of California - Los Angeles (UCLA) 2015 – 2017

BA, History, University of California - Los Angeles (UCLA) 2010 – 2014