

# Kal Krueger

## Software Engineer

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### EXPERIENCE

#### 2022 CO-CREATOR, SOFTWARE ENGINEER - QMANTIS, REMOTE

An open-source, easy to set up observability solution for GraphQL APIs that enables seamless analysis of slow requests, errors, and resolver performance

- Created telemetry data pipelines: generating (OpenTelemetry), exporting (OpenTelemetry Collector, Prometheus), storing (Promscale/TimescaleDB), and visualizing (Grafana) metrics and trace 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 request and error data
- Built and deployed qmantis-express, an NPM package that abstracts instrumentation of metrics and traces using OpenTelemetry SDKs
- 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
- Automated deployment of QMantis architecture using Docker
- Co-authored technical case study and documentation: [gmantis.co](http://gmantis.co)
- Collaborated with a remote team of 4 engineers across 3 time zones using agile workflow

#### 2020 - 2022 FULL-STACK ENGINEER - REMOTE

- Created open-source and personal web applications using Javascript, Ruby, React/Redux, NodeJS, SQL, MongoDB, and HTML/CSS

#### 2015 - 2020 OPERATIONS & STRATEGIC MANAGEMENT - VOGT'S FLOWERS & GIFTS, FLINT, MI

Largest retail floral operation in Mid-Michigan

- Part of an upper management team that oversaw all departments of the business as well as the direction and well being of the ~50 individuals who make up those departments
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### EDUCATION

#### 2010 - 2015 THE UNIVERSITY OF WASHINGTON FOSTER SCHOOL OF BUSINESS

*Bachelor of Arts in Business Administration, Dual Focus in Finance and Entrepreneurship*

#### 2020 - 2022 LAUNCH SCHOOL

*Rigorous software engineering program focused on mastery of fundamentals*

[launchschool.com/employers](http://launchschool.com/employers)

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### SKILLS

#### FRONTEND

Javascript, React, Redux, Handlebars, HTML, CSS

#### BACKEND

Node.js, Ruby, Express, Go, PostgreSQL, MongoDB, REST APIs, GraphQL

#### TOOLS

Git/Github, Docker, Grafana

#### CLOUD

Digital Ocean, Heroku, AWS