

Kal Krueger

Full-Stack Software Engineer

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Summary

I'm a Software Engineer based in Bozeman, MT who loves to build things from the ground up. I'm the co-creator of QMantis [✗](#), an observability tool for GraphQL backends. I have multiple years of experience in both the Ruby and JavaScript ecosystems, and am comfortable with a number of database systems as well as Docker.

Skills

Frontend

Javascript, React.js, React Hooks, Redux, Handlebars, HTML, CSS

Tools

Git/Github, Docker, Grafana, Jaeger, Mongoose

Backend

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

Cloud

AWS, Digital Ocean, Heroku

Professional Experience

CO-CREATOR, SOFTWARE ENGINEER, *QMantis* [✗](#)

2022

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 (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 real-time metrics and traces data with TimeScaleDB
- Configured Grafana dashboards for visualizing and analyzing data
- Built and deployed qmantis-express, an NPM package that abstracts instrumentation of metrics and traces using OpenTelemetry SDKs
- Prototyped two additional 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
- Collaborated with a remote team of 4 engineers across 3 time zones using agile workflow

FULL-STACK ENGINEER, *Personal Projects*

2020 – 2022

Remote

- Flower Biller: Software for organizing and billing out wholesale floral purchases (Javascript, React.js, Express.js, MongoDB, Mongoose, GraphQL)
- Mello: Trello-like collaboration app (Node.js, Express, MongoDB, React, Redux)
- Bin Hooked: RequestBin-clone for receiving and debugging webhooks (Node.js, MongoDB)
- Flight Finder - React app allowing users to filter routes by airline and airport (React)

Business Operation & Strategic Management for start-ups and retail businesses

2014 – 2020

Education

Software Engineering, *Launch School* [✗](#)

2020 – 2022

Rigorous program focused on mastery of software engineering principles

MBA - Incomplete, *University of Michigan - Flint*

2018 – 2019

GMAT Scholarship - Scholarship for having exceptional GMAT score (730)

Flint, MI

Bachelor of Arts, Finance & Entrepreneurship, *University of Washington*

2010 – 2015

Multiple study abroad programs and leading roles in social groups

Seattle, WA