

# Kal Krueger

## Software Engineer

✉ kkrueger19@gmail.com ☎ (810) 407-1439 📍 Bozeman, MT 🖱 kalkrueger.dev

### 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 OPERATIONS & STRATEGIC MANAGEMENT, VOGT'S FLOWERS**

2015 – 2020

Flint, MI

### 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

### 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