

# BRENDON A. KAY

## Backend Software Engineer

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## EXPERIENCE

### Lead Backend Developer

#### Maize Analytics

📅 January 2019 – Present

📍 Remote

Developed web application backend tooling to support features and services. These included tools for Extraction, Transformation, and Load (ETL) of data used in the main application's Machine Learning features. My team implemented these tools using Python, Golang, and deployed using Docker and ECS. Additional responsibilities include the deployment and maintenance of our AWS cloud infrastructure, using Terraform and AWS SDKs to automate these processes.

### Data Analyst

#### Vail Resorts

📅 September 2018 – January 2019

📍 Broomfield, CO

Extract information for ad campaigns and for the Data Science and Governance team. Wrote ETL scripts using SQL and Python. Contracted on a per-quarter basis.

### Application Engineer

#### Logic Supply, Inc.

📅 November 2017 – September 2018

📍 South Burlington, VT

Developed internal tooling to support the production systems of the ERP and website. Implemented in-house auditing tools for analytics and fault prevention. Maintained Google business tools, such as Google Scripts, for business intelligence reporting.

### QA Engineer

#### Logic Supply, Inc.

📅 April 2017 – November 2017

📍 South Burlington, VT

Quality assurance of the org's e-commerce website and ERP system through manual testing methods, user acceptance testing, and by reviewing and developing unit tests. Maintained and developed the GitLab CI for automated and scheduled test runs and code quality checks. Wrote automated functional tests in Selenium and Python for automated website testing.

### QA Engineer

#### Allscripts Healthcare Solutions, Inc.

📅 September 2016 – March 2017

📍 South Burlington, VT

Quality assurance of the TouchWorks EMR product by means of automated testing. Developed Selenium scripts, coordinating user acceptance testing, and research requirements for products and solutions.

### Web Developer

#### Union Street Media

📅 February 2015 – March 2016

📍 Burlington, VT

LAMP stack web development. Daily activities included writing backend PHP code, configuring DNS, as well as maintaining the MySQL databases.

## NOTEWORTHY PROJECT

### Real-time EMR message processing tool

#### Private Repo

📅 June 2019 – Present

This app streams real time data from an Electronic Medical Record system. Written in Go, the app is separated in to four domains; listener, producer, consumer, and storage. Each domain is modeled through a Go interface. The listener is a generic message listener, often implemented as a REST endpoint. The consumer and producer handle their respective roles with an intermediary queue system, such as RabbitMQ. The storage system is also generic, allowing multiple implementations like local file, s3, etc. The app is deployed using Docker and ECS and broken into two services, the listener/producer and consumer/storage, that communicate via the queue.

## CAREER INTERESTS



### Data Engineering

Enterprise level data collection and sanitation.



### Backend Software Development

API, tooling, microservices development.



### Learning

Continuing to learn new technologies to stay innovative.

## SKILLS

### Design Patterns and Architectures

Domain Driven Design

Clean Architecture

CQRS

MVC

### Languages and Technologies

#### Proficient

Golang

Python

SQL

Linux Systems

CLI scripting

CI/CD

Docker

#### Knowledgeable

JavaScript

CSS

C

Java

### Cloud

AWS

EC2

ECS

RDS

## EDUCATION

Bachelors of Science in Computer Engineering

#### Vermont Technical College

📅 June 2015

Member of the VTC engineering club

## REFERENCES

Available upon request.