

# Jake deVarennnes

## Software Engineer

✉ devarennnesjacob@gmail.com 📍 Houston, TX 🌐 jakedevarennnes.com 🔄 jakedev var in jakedev var

### PROFILE

I'm a Software Engineer based in Houston, TX. I'm the co-creator of Constellation, a geo-distributed load-testing framework. I have multiple years of experience in both the Ruby and JavaScript ecosystems and am comfortable with AWS (mainly EC2, ECS, Fargate, Lambda, and Timestream) and Docker.

### SKILLS

**Languages** (JavaScript, Ruby, PostgreSQL, CSS, HTML)

**Cloud** (AWS Services (DynamoDB, Lambda, EC2, API Gateway, S3, Timestream), Digital Ocean (droplets))

**Libraries & Frameworks** (React/Redux, jQuery, Express, Jest, Handlebars,)

**Other** (Docker, Git/GitHub, Neovim, Linux, RESTful APIs, PostgreSQL, SQLite3, MongoDB, Nginx, Git/Github)

### EXPERIENCE

#### **Co-creator, Software Engineer, Constellation**

Aug 2022 – Dec 2022

Constellation is an open-source tool that provides a simple command line interface for deploying geo-distributed load testing on AWS.

- Lead development on the data-aggregation software using Node.js and AWS SDK that allows for a capacity of over 130 requests per second. (Node.js, SQLite3, AWS SDK, Timestream)
- Constructed the data visualizer which provides a comprehensive way to ingest data returned from the load generation test. (Node.js, React, Axios)
- Developed CLI command allowing users to accomplish with a single command on Constellation, which would take over 7 API calls to AWS to accomplish. (Node.js, Axios)
- Engineered a buffer system that prevents data loss from high-frequency database writes. (Node.js, SQLite3)
- Collaborated with a remote/international team of engineers from the US, New Zealand & Canada, involving daily standups and pair programming.
- Authored Constellation's comprehensive technical white paper (<https://constellation-load-testing.github.io/case-study.html>)

#### **Software Engineer, Self-employed**

Apr 2021 – Dec 2022

Developed open-source web applications with technologies such as Node, Ruby, Rails, PostgreSQL, React, JavaScript, HTML, and CSS.

- Bin of Requests: A Node.js application built using Express, Mongo, and PostgreSQL to capture and monitor HTTP requests.
- JobQuery: A Node.js job keyword tracking application built using Express, MongoDB, and React/Redux.

#### **Other**

2014 – 2021

- Multiple experiences related to business and sales.

### EDUCATION

#### **Software Engineering, Launch School**

Apr 2021 – Dec 2022

A multi-year mastery-based course in programming fundamentals and best practices.

#### **University of Nevada Reno, BA General Studies**

Aug 2014 – May 2018

Focuses on both psychology and anthropology.