

Jake deVarennnes

Software Engineer

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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

Software Engineer, Co-creator, 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.

EDUCATION

University of Nevada Reno, BA General Studies

Focuses on both psychology and anthropology.