

# Jake deVarennnes

## Software Engineer

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### PROFILE

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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 (EC2, ECS, Fargate, Lambda, and Timestream) and Docker.

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### EXPERIENCE

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#### **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.

- Led 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

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### SKILLS

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**Languages** (JavaScript/Node.js, Typescript, Ruby, Go, PostgreSQL, CSS, HTML)

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

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

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

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### EDUCATION

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