

# Jake deVarennnes

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## PROFILE

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Software Engineer with two years of experience in both Ruby and JavaScript ecosystems. Led architecture design with a team of four to build Constellation, a geo-distributed load-testing framework capable of handling up to 10,000 virtual users.

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## EXPERIENCE

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**Software Engineer, Co-creator, Constellation**  2022 – Present

Constellation is an open-source tool that provides a simple command line interface for deploying geo-distributed load testing on all 26 AWS-hosted regions.

- Researched existing products to find the most impactful features and explored architectural challenges
- Spearheaded development of the data-aggregator component to handle a capacity of over 130 requests per second using Node.js and AWS SDK
- Constructed a data visualizer which provided a comprehensive way to ingest data returned from the load generation test from all 26 AWS regions
- Developed CLI command capable of executing in a single command what would have originally taken over 7 API calls to AWS to accomplish
- Created a buffer system for the data-aggregator component, which decreased data loss to 0% at a rate of over 130 Rps
- Wrote code from scratch which replaced the functionality of 3 open-source tools, reducing the overall API complexity
- Engineered data ingestion and retrieval system optimized for high read volume and complex analytical queries over large datasets
- Collaborated with a remote team of engineers from the US, New Zealand & Canada, across four time zones involving daily stand-ups and pair programming

**Software Engineer, Self-employed**  2021 – 2022

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

- JobQuery: A job keyword tracking software that processes 900 job listings at once and analyzes the top keywords present in each listing; built with Node.js, Express, MongoDB, Puppeteer, and React/Redux
- Bin of Requests: A Node.js application built using Express, MongoDB, Postman, and PostgreSQL to capture and monitor HTTP requests
- ShakeSearch: Constructed a Full Stack application to search the complete works of Shakespeare. Built with Go, React, SQLite3, and Tailwind CSS.

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## SKILLS

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

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

**Libraries & Frameworks** (React, Redux, jQuery, Express, Jest, Handlebars, Puppeteer, MaterialUI, Bootstrap)

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

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## EDUCATION

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**University of Nevada Reno, BA General Studies** 2014 – 2018

**Software Engineering, Launch School** 2021 – 2022