Jake deVarennes

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🪪 PROFILE

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.

🗁 EXPERIENCE

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.

- Bin of Requests: A Node.js application built using Express, MongoDB, Postman, and PostgreSQL to capture and monitor HTTP requests
- 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
- Swillreno.com: Constructed website using Wordpress for local business within a very sensitive time frame

Sales Associate, *Ford Motors*   2019 – 2021
- Sold new and used vehicles in one of the toughest markets this century
- Mentored junior salespersons to significantly improve the onboarding experience

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🧠 SKILLS

Languages (JavaScript/Node.js, Typescript, Ruby, Go, 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)

🎓 EDUCATION

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

Software Engineering, *Launch School*   2021 – 2022