

Jake deVarennnes

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PROFILE

Software Engineer with a strong foundation in both JavaScript and TypeScript ecosystems. Demonstrated expertise in architecting and enhancing SaaS applications, highlighted by significant contributions in previous projects. Proficient in Node.js and React, with a notable track record of innovative contributions and collaborative work in global teams.

EXPERIENCE

LitX, Software Engineer

Feb 2023 – present

LitX, an early-stage start-up in the SaaS industry, aspires to modernize the process of sharing legal information via a secure virtual platform. I played a pivotal role in the development of various aspects of the platform.

- Engineered a viral feature using a blend of in-app notifications and email tools like SparkPost, resulting in a substantial surge in daily user engagement.
- Developed an in-house application using TypeScript with Vite. Allowed for seamless integration with our production API, deeper insights into business metrics, and safe interaction with our production database as a customer support tool.
- Collaborated closely with a senior engineer to modernize our legacy codebase. Utilized Node.js for backend operations and React for frontend, ensuring alignment with the most recent software best practices.
- Drafted rigorous end-to-end tests using Ava and Sinon effectively doubling the code coverage compared to the previous test suite.
- Seamlessly integrated the Stripe API, providing a user-friendly subscription model for platform users.
- Managed the development of business logic to efficiently transition guest users into paying customers.

Software Engineer, Co-creator, Constellation

Aug 2022 – Feb 2023

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.

- Extensively 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 an intuitive data visualizer, providing a comprehensive way to ingest data returned from the load generation test from all 26 AWS regions.
- Developed a CLI command capable of executing in a single command what previously required over 7 API calls to AWS to accomplish.
- Created a buffering mechanism for the data-aggregator component, effectively nullifying data loss at a throughput exceeding 130 Rps.
- Wrote code that superseded the functionality of three open-source tools, simplifying the overall API complexity.
- Engineered a 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

Apr 2021 – Aug 2022

During my academic studies, I developed open-source web applications to reinforce my software engineering foundations, utilizing technologies such as Node.js, Ruby, 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.

SKILLS

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

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

Libraries & Frameworks (React, Redux, jQuery, Express, Jest, Handlebars, Puppeteer, MaterialUI, Bootstrap, Fastify, Ava, Sinon)

Other (Docker, Git, GitHub, Neovim, Linux, RESTful APIs, PostgreSQL, SQLite3, MongoDB, Sparkpost, Stripe)

EDUCATION

University of Nevada Reno , <i>BA General Studies</i>	2014 – 2018
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Software Engineering , <i>Launch School</i>	2021 – 2022
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