

Kaavya Lakshmanan

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SKILLS

<https://github.com/kaavyalakshmanan>

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Languages: Go · Python · JavaScript (ES6, TypeScript) · SQL · Java · R · HTML/CSS
Full-stack: Node.js · React · Redux · MySQL · SQL Server · Vue3.js · MongoDB · PostgreSQL · Express.js · JWT · bcrypt
Libraries: d3.js · geopandas · anaconda · ggplot2 · BigQuery · Objection.js · Knex.js · DialogFlow · Locust
AWS: DynamoDB · EC2 · S3 · Docker · CloudWatch · CloudMetrics · SQS · Lambda · Amazon Builder Tools

EXPERIENCE

Software Developer, Twitch (Amazon)

Jul 2022 - Mar 2023

- Reduced tech debt by incorporating **version drift detectability** onto a host health collector service, which involved both **creating an endpoint** to support publishing its version and modifying the consumer to obtain the updated statistics. Quickly on-boarded into **complex distributed systems** and tackled high levels of **strategic ambiguity**.
- **Developed metrics** for a video playlist delivery service to **improve debugging** of its consumer, a metrics and analytics service, by identifying different error cases, with the goal of **decreasing engineering debug time**. Used **Golang**.
- Migrated **Twitch Live Video CDN components** to Amazon's internal **CI/CD platform**, leveraging **Amazon Builder Tools**, which enabled **automatic security updates**, exposed vulnerable code, and built a consistent platform. Orchestrated a **zero-downtime** transition to the new deployment system. Discovered **timeouts** occurring in other services as a result of this migration that weren't caught by existing set of tests, and spearheaded discussions around **pipeline robustness** and writing **integration tests**.
- Developed an **internal web app** which publishes necessary network metrics and visualizations of **Twitch Live Video CDN**, so that engineers could discover overloaded nodes in Twitch's internal network, and distribute traffic accordingly. Used **React**.

Full-Stack Engineer, Omics Data Automation

May 2021 - May 2022

- Built an end-to-end testing framework using **Playwright & Jest** to comprehensively test the patient data management app utilized by doctors and clinicians. Produced a load testing tool using **Locust** to test the app's capacity.
- Built client facing platforms and single page applications for doctors and clinicians to collect patient data, using **Vue3.js**. Thoroughly unit tested frontend components.

Full-Stack Engineer Intern, LiteFarm

Sep 2020 - Apr 2021

- Developed LiteFarm's open source AgTech software by collaborating with UX designers to build client facing components using **React/Redux**.
- Designed and tested **RESTful API** endpoints, created database migrations using **Knex.js** and **Objection.js**, and managed database systems using **PostgreSQL**.
- Helped organize team priorities, plan and estimate upcoming work, and architect database design.

Software Developer Intern, Benevity

May - Aug 2020

- Established client-facing embedded dashboards to represent user data. Conducted data analysis and created data visualizations using **MySQL & SQLServer**.
- Translated queries from **MySQL** to **SQLServer** database, with different **ETL processes, load frequencies**, and **heterogenous schemas**, in order to optimize processes for internal teams.
- Created a POC for a recommender system to recommend causes and volunteering opportunities to donors, using **content-based** and **collaborative filtering algorithms**.

HACKATHONS/PROJECTS

Televet

May - Aug 2020

- Built a tele-health **MERN** full-stack web app that connects pet owners to vets.
- Engineered user authentication, built a customized user dashboard, and designed and implemented API endpoints.

EDUCATION

Bachelor of Computer Science, University of British Columbia

Sep 2017 - May 2021