

# Tristan Rhodes

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## EXPERIENCE

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### Software Engineer 2 – LaunchDarkly

September 2023 – Current

*Data Platform*

*San Francisco, CA*

- Led a small team that implemented a Spark data pipeline processing ~50 million events/minute to run an analysis of covariance regression on A/B test results. The method is better known as CUPED. This led to a 14% variance reduction on customer experimentation results, ultimately saving our customers 24 hours per one week of experiment duration and \$30,000/month. (Scala, Spark, Airflow)
- Currently leading the backend development effort to support customer flexibility between either Frequentist or Bayesian interpretations of experimentation results. (Go, Scala, Spark)
- Led the data engineering effort of LaunchDarkly's error monitoring tool, Visor. This was a net-new market segment for the company and required a 0 to 1 build. (Go, Terraform, AWS Lambda)
- Released a Flink pipeline that ingests a datastream of feature flag evaluations (40 trillion events/day) and monitors it in real-time to detect and mitigate user-defined software regressions. (Scala, Flink)
- Designed, implemented, and deployed from scratch an application that snapshots and persists large A/B test results for all of our customers on a 5 minutely basis. (Go, AWS Lambda)

### Software Engineer – Nordstrom

November 2021 – September 2023

*Experimentation*

*Seattle, WA — San Francisco, CA*

- Led the development of our in-house feature flagging service used by 70+ other teams in Nordstrom Tech. (Go, React, PostgreSQL, Redis)
- Maintained the site-wide Experimentation/AB testing framework for new feature and performance testing. Built with real-time stream processing, distributed computing, and large-scale data pipelines. (Java/Kotlin, Kafka, Flink, Redis)
- Integrated our experimentation platform with the most current mobile app major version upgrade. (Kotlin, Java, React Native, Swift)
- Designed and implemented a command line tool to analyze Kafka streams in real-time. (Typescript, Bash, Kafka)

### Mycology Researcher

2019 – 2021

*Whitman College*

*Walla Walla, WA*

- As part of my research, I wrote data pipelines to transform and analyze fungal genome sequencing data. I documented 11 novel associations of ascomycetes within *Larix occidentalis*. Funded through a research grant by Whitman College.

## PROJECTS

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**recruiterfetch.com** | *Go, HTMX*

current

- A web app that allows users to input any company name and retrieve the technical recruiters associated with the company.

**Market Making Agent** | *Typescript, Java*

current

- An autonomous market making agent running on a network of accounts operating on the Runescape Grand Exchange. It uses a random forest model to rank and execute liquidity harvesting trades in real time.

## EDUCATION

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**Whitman College**

Walla Walla, WA

*Molecular Biology*

## TECHNICAL SKILLS

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**Languages:** Golang, Typescript, Scala, Python, Java, Lisp

**Frameworks:** Spark, Flink, React, Redis, HTMX, Kafka, SQL + noSQL

**Ops:** AWS, Terraform, Docker, Kubernetes, Airflow, Git