

# Alyssa Frazee

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## Experience

May 2022 - present

**[Check](#), San Francisco, CA** - Senior Software Engineer (*risk and fraud*)

April 2021 - May 2022

**[Pilot](#), San Francisco, CA** - Senior Software Engineer (*technical lead, Customer Experience*)

- Led engineering work to let one login grant access to multiple Pilot accounts, greatly improving the in-app experience for 10-20% of Pilot customers (including the most complex ones)
- Led engineering work to move bookkeeping from an email-based to an app-based workflow, making it easier for customers to receive completed books promptly and saving bookkeeper time

December 2019 - March 2021

**[Deck](#), San Francisco, CA** - Staff Software Engineer (*data & machine learning lead*)

September 2020 - March 2021: Staff Software Engineer / data & ML technical lead

December 2019 - September 2020: Senior Product Engineer

- Built and publicized [2020 election forecasts](#) without polling data
- Led full redesign of evidence-backed tool to help campaigns plan who to contact, how to contact them, what media markets to focus on, and what ads to run in order to achieve a vote share goal.
- Built billing integration handling the majority of company cash flow

March 2015 - November 2019

**[Stripe](#), San Francisco, CA** - Senior Software Engineer

August 2018 - November 2019: Senior Security Engineer

September 2017 - August 2018: Senior Machine Learning Engineer

March 2015 - September 2017: Machine Learning Engineer

- Created statistical models and API interfaces for [Radar](#), Stripe's ML-based fraud protection product for businesses. Reduced overall fraudulent chargeback rate by ~25%.
- Did full stack engineering and experimental design work to ~double adoption of 2FA for the Stripe Dashboard. Built foundation for real-time modeling to predict fraudulent login / account takeover events.

## Education

**Johns Hopkins School of Public Health, Baltimore, MD** - PhD, Biostatistics - 2015

**St. Olaf College, Northfield, MN** - BA, Mathematics (Statistics minor) - 2010

## Other Technical Endeavors

**[Recurse Center](#), New York, NY** - Programming Sabbatical - Summer 2013

**Expert Witness Training for Gerrymandering Cases**, March 2018

**[talks](#) / [blog posts and scientific papers](#) / [open source](#)** - 2013-present

**Tech stack:** Python (Mypy, Django, scikit-learn, Airflow, Pandas, Matplotlib), JavaScript (Vue, React, TypeScript), Ruby (Sinatra, Sorbet), Scala, SQL, R. I delight in learning new languages and technologies.