

Roban Hultman Kramer

SUMMARY Applying 10 years of production experience to Responsible Machine Learning.

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EMPLOYMENT **Machine Learning at Stripe**, 2015 - present (remote)

ML Engineer (2021 - present) – Responsible Machine Learning Project

Founded project with a mission to decrease systemic barriers to economic participation and address the ethical, reputational, and business risks of automated decision making.

ML Engineer (2020 - 2021) – Payment Optimization Team

Designed real-time ML systems to increase transaction authorization rates and revenue for Stripe's users.

ML Engineering Manager (2018 - 2020) – Merchant Forecasting Team

Grew a team of 2-5 engineers to use machine learning and Bayesian probabilistic programming to predict user activity and make optimal use of automated and human-reviewed interventions to manage loss risk.

ML Engineer (2015 - 2018) – Radar Team

Built and improved real-time models powering interventions in the payment flow to protect Stripe users from fraudulent transactions.

Data Scientist, Gerson Lehrman Group

New York City and remote from Baltimore, 2012 - 2015

Zwicky Prize Postdoctoral Fellow,

ETH Zürich (Swiss Federal Institute of Technology)

Zürich, Switzerland, 2010 - 2012

TECHNICAL SKILLS **Programming:** Python, Scala, Ruby, Javascript, d3, Perl, Mathematica.

Machine Learning Models and Applications: responsible machine learning and AI ethics (fairness, accountability, and transparency), risk and fraud modeling, decision optimization, recommendation engines, classification and regression models, boosted trees, deep neural nets, unsupervised clustering, Bayesian probabilistic modeling.

EDUCATION **PhD in Astronomy**, Columbia University, 2009

MA and MPhil in Astronomy, Columbia University, 2007

BA in Astrophysics, Swarthmore College, 2003, with High Honors