Rob McAdam

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I am a full-stack engineer with expertise in statistical modeling & Bayesian machine learning.

Georgia Tech

Master of Science, Computer Science

Specialization in *Machine Learning*
Part-time, online, currently enrolled
GPA: **4.00**

UC Berkeley

Bachelor of Science, Mechanical Engineering

Specialization in *Optimization & Controls*
Friesen Engineering Scholar
GPA: **3.77**

ML Skills

Deep learning
Information theory
Bayesian inference
Reinforcement learning
Natural language processing
Graph theory & network science

Personal Projects

Twitter network community detection
Bayesian normalizing flows
Robotic control via PPO
Neural ODE modeling
Flow-based seq2seq

Languages & Tools

HTML, CSS, JS
TensorFlow
NetworkX
Python
Gephi
Keras
Flask

OpenLabs R&D

Senior Machine Learning Engineer

Progressive Nonprofit 5.21-Present

- Develop Bayesian machine learning models to shape democratic electoral & policy strategies

Apple

Machine Learning Engineering Lead

Mac & Autonomous Technologies 5.16-5.17 (Intern), 6.18-5.21

- Lead development of machine learning platforms to optimize design of portable & desktop systems
- Designed unsupervised manufacturing anomaly detection algorithms
- Developed web apps for data visualization, inference, & prediction
- Bayesian machine learning platform:
  - Conceived & developed app for analyzing manufacturing data
  - Secured 7-figure funding & lead a team of 6 for development
  - Successfully deployed for use across all major design & manufacturing orgs (iPhone, Mac, Watch, etc.)
  - Regularly presented progress to SVP & reporting directors

UC Berkeley

Researcher

Inertial Storage & Recovery Lab 8.14-5.18

- Developed controls for regenerative braking technologies featuring a mechanical flywheel in Dr. Dennis Lieu's INSTAR research group

Joys

Effective Altruism
Reading — *East of Eden* is my all-time favorite
Writing — Ontological Hygiene
Animal advocacy
Hazy, unfiltered IPAs
Hiking
Philosophy — Beauvoir & Singer are favorites