

Eugenia Iofinova
Los Angeles, CA
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hellojen.cc

SUMMARY

Software engineer specializing in machine learning and data mining. Extensive experience in training models, building and maintaining large-scale data pipelines, and building products that use machine learning to address real user needs.

RELEVANT SKILLS

Mathematics: Machine learning, Natural Language Processing, Probability, Statistics, Mathematical Modeling

Programming languages:

Currently used: C++, Python (Tensorflow, Pandas)

Past experience: Ruby (Ruby on Rails), R, MySQL, Javascript, JQuery

Natural Languages: Fluent in English and Russian, conversational in Spanish and French

Collaboration: Extensive experience in engineering teams of 1-30 people as well as cross-functional teams; track record of successful technical mentoring, recruiting, and outreach

EDUCATION

B.S., Mathematics, California Institute of Technology (Honors; 3.6 GPA) August 2002 - June 2006

EMPLOYMENT HISTORY

Google, Inc, Los Angeles, CA

Senior Software Engineer

December 2014-Present

- Trained linear and nonlinear (neural network) models for binary and taxonomic classification of ad creatives and websites. Trained the rest of the team on Tensorflow
- Built pipelines for sampling training and evaluation data and collecting human ratings
- Coordinated launch of three new models in production, working across model serving infrastructure, caching, and front end teams.
- Pioneered a cross-functional machine learning fairness initiative in display ads, coordinating efforts to measure and improve fairness in models as well as class definitions.
- Onboarded and mentored new team members and interns
- Chapter lead of Women@Google SoCal and community service lead for CS education

Castlight Health, San Francisco, CA

Member of Technical Staff / Technical Manager, Strategic Analytics

November 2009 - December 2014

- Developed a member targeting system to predict suboptimal health care shopping behavior in patients and a provider targeting system to identify orthopedists who refer to overpriced imaging centers.
- Collected data and created analyses for publication in major news outlets.
- Championed and implemented direct database access to a team with no prior technical background, more than doubling the team's work capacity.
- Built a model for pricing health care visit prices based on provider specialties and overall billing patterns
- Supported development culture at Castlight by organizing a weekly developers' symposium
- Implemented numerous features of the Castlight Health patient portal, including:
 - the first healthcare services bundle at Castlight for lab tests
 - a tool to import insurance plan details in order to calculate a user's projected out of pocket costs

Upward Bound, San Francisco, CA

Teacher and Tutor

March 2009-July 2009

- Tutored local high school students in math and science during the school year.
- Designed and taught three summer classes of six to forty students in chemistry and physics.

Susquehanna International Group, Philadelphia, PA

Trader, Strategic Options Trading

May 2006-January 2009

- Developed and optimized an manual/algorithmic trading system that traded options in hundreds of stocks
- Updated trade reconciliation software (MySQL, Python) and trained the group on using MySQL

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RESEARCH EXPERIENCE

UCLA IPAM Summer Research Mentor

Mentored four-person undergraduate team in research project on optimizing human ratings of training data for machine learning models given imperfect rater accuracy

Summer 2016

Research in Abstract Algebra

Dr. Michael Aschbacher, Department of Mathematics, California Institute of Technology

Summer 2005

Summer Undergraduate Research Fellowship, Political Science

Dr. Michael Alvarez, Department of Political Science, California Institute of Technology

Summer 2004

PUBLIC SPEAKING

ML Fairness in Display Ads - Internal Google conference talk

November 2017

"Hack your browser!" - Nerd Nite LA

May 2013

"Analytics in Healthcare Consumerism"- STRATA RX

October 2012