# ${f Will\ Wolf}$

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#### EDUCATION

Open-Source Machine Learning "Master's"

Penn State University, Schrever Honors College

Casablanca, Morocco

Sep 2016 - July 2017

A 10-month, self-curated deep-dive into select topics in machine learning

University Park, Pennsylvania

Bachelor of Science, Industrial Engineering, with minor in Mathematics

Sep 2007 - Dec 2011

• 3.57 / 4.0 GPA, Dean's List 6 semesters

• Honors thesis (supervised by Dr. Chris Byrne): Prisoner's Dilemma Games on a Geodesic Dome

#### Experience

Staff Machine Learning Engineer Lead Machine Learning Engineer Research Engineer Senior Machine Learning Engineer ASAPP

May 2021 – Present Sep 2020 - May 2021

Oct 2018 - Sep 2020

Aug 2017 - Oct 2018

New York, New York

• Research and develop methods (supervised by Dr. Kilian Q. Weinberger) for dialog generation, dialog segmentation, "procedure induction" in goal-oriented dialog, text recommendation and online learning

- Develop, build, deploy and maintain production services for intent classification, personalized next-utterance recommendation and conversation summarization (used by Vodafone, jetBlue, Dish, etc.)
- Work across Research, Machine Learning Engineering, Data Science and Product teams
- Mentor junior team members in research, software engineering and machine learning fundamentals

Data Scientist Mar 2015 – July 2016

ShopKeepNew York, New York

- Developed, built and maintained internal service for computing merchant similarity in a continuous space
- Developed and built survival analysis models for predicting merchant churn
- Authored internal software package offering composable predictive modeling objects
- Built and maintained ETL infrastructure for data ingestion, transformation and visualization

## Data Science Teacher (part-time)

Aug 2015 – Dec 2017

Thinkful

Remote

- Mentored students throughout a 10-12 week, project-based data science curriculum
- Main topics: the Python scientific and inferential stack, databases and APIs, Git and version control, probability and statistics, applied machine learning

#### Data Science Consultant (part-time)

Sep 2015 – Feb 2016

Data-Pop Alliance

New York, New York

• Researched and developed methods for using cell phone call records to predict population figures in West Africa

#### Online Poker Player

Jan 2005 – Jan 2011

Remote

Internet

• Built \$50 into \$150,000 playing 6-8 tables simultaneously

• Hired to coach players worldwide in poker theory and strategy

#### Selected Writing, Code

willwolf.io/machine-learning | Approximate inference, Bayesian methods, generative models, neural networks, etc. github.com/cavaunpeu | Implementations of machine learning algorithms

### SELECTED TALKS, TEACHING

NYC Machine Learning   A Practical Guide to the Open-Source Machine Learning "Master's"	Aug 2019
Boston Bayesians   Minimizing the Negative Log-Likelihood, In English	Aug 2018
Facebook Developer Circles Casablanca   You've Been Doing Statistics All Along	May 2017
Platzi (Bogotá, Colombia)   Taught data science courses in English and Spanish	$\mathrm{Aug}\ 2016$

## Personal

Languages | English (native), Spanish (advanced), French (advanced), Russian (intermediate) willtravellife.com | Stories from 65+ countries, and a 7,500 kilometer bicycle ride from Turkey to Kyrgyzstan