Will Wolf

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EDUCATION

Open-Source Machine Learning "Master's"	Casablanca, Morocco
A 10-month, self-curated deep-dive into select topics in machine learning	*Sep 2016 – July 2017*
Penn State University, Schreyer Honors College	University Park, Pennsylvania
Bachelor of Science, Industrial Engineering, with minor in Mathematics, 3.57 GPA	*Sep 2007 – Dec 2011*

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

EXPERIENCE

Staff Machine Learning Engineer	May 2021 – Present
Lead Machine Learning Engineer	Sep 2020 – May 2021
Research Engineer	Oct 2018 – Sep 2020
Senior Machine Learning Engineer	Aug 2017 – Oct 2018
ASAPP, Inc.	*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
ShopKeep	*New 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
Internet	*Remote*

- 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	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