Will Wolf

williamabrwolf@gmail.com | +1 610-613-3171 | willwolf.io

EDUCATION

Open-Source Machine Learning "Masters"   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 (advised by Dr. Chris Byrne): *Prisoner's Dilemma Games on a Geodesic Dome*

EXPERIENCE

Lead Machine Learning Engineer   Sep 2020 – Present
Research Engineer   Oct 2018 – Sep 2020
Senior Machine Learning Engineer   Aug 2017 – Oct 2018
ASAPP, Inc.   *New York, New York*
- Core member of Dr. Kilian Q. Weinberger's research group
- Research and develop methods 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.)
- 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 services for computing merchant similarity in a continuous space
- 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   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   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 TALKS, TEACHING

NYC Machine Learning | *A Practical Guide to the Open-Source Machine Learning Masters*   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

SELECTED WRITING, CODE

willwolf.io/machine-learning | Approximate inference, Bayesian methods, graphical models, neural networks, etc.
github.com/cavaunpeu | Implementations of machine learning algorithms
willwolf.io/geopolitics | Intersections of geopolitics and artificial intelligence
willtravellife.com | Stories from 65+ countries, and a 7,500 kilometer bicycle ride from Turkey to Kyrgyzstan

LANGUAGES

English (native), **Spanish** (advanced), **French** (advanced), **Russian** (intermediate)