

Will Wolf

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EDUCATION

Open-Source Machine Learning “Master’s”

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

Casablanca, Morocco

Sep 2016 – July 2017

Penn State University, Schreyer Honors College

Bachelor of Science, Industrial Engineering, with minor in Mathematics

University Park, Pennsylvania

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

Cred Protocol

Mar 2022 – Present

Remote

- Research and develop DeFi credit-scoring models
- Mentor junior team members in researching and developing “same account detection” models
- Authored company whitepaper, *Scoring Aave Accounts for Creditworthiness*

Visiting Research Engineer

Block Science

Feb 2022 – Present

Remote

- Design, simulate, and propose algorithmic policy for a “community-powered” hedge fund
- Design, simulate, and propose models for “mutual credit” currency pricing via time-delay differential equations
- Develop open-source tools for dynamical systems modeling in Python and Rust

Staff Machine Learning Engineer

May 2021 – Dec 2021

Lead Machine Learning Engineer

Sep 2020 – May 2021

Research Engineer

Oct 2018 – Sep 2020

Senior Machine Learning Engineer

Aug 2017 – Oct 2018

ASAPP

New York, New York

- Researched and developed methods (supervised by Dr. Kilian Q. Weinberger) for dialog generation, dialog segmentation, “procedure induction” in goal-oriented dialog, text recommendation and online learning
- Developed, built, deployed and maintained production services for intent classification, personalized next-utterance recommendation and conversation summarization (used by Vodafone, jetBlue, Dish, etc.)
- Worked across Research, Machine Learning Engineering, Data Science and Product teams
- Mentored junior team members in research, software engineering and machine learning fundamentals

Data Scientist

ShopKeep

Mar 2015 – July 2016

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

Thinkful

Aug 2015 – Dec 2017

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

Data-Pop Alliance

Sep 2015 – Feb 2016

New York, New York

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

Online Poker Player

Internet

Jan 2005 – Jan 2011

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 <i>A Practical Guide to the Open-Source Machine Learning “Master’s”</i>	Aug 2019
Boston Bayesians <i>Minimizing the Negative Log-Likelihood, In English</i>	Aug 2018
Facebook Developer Circles Casablanca <i>You’ve Been Doing Statistics All Along</i>	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