Matt Gleeson

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https://github.com/MatthewGleeson

matthewgleeson.github.io/

Education

University College London

2020-SEP 2021, LONDON

MSc Machine Learning

98% avg grade across courses as of Dec 2020

- Introduction to Deep Learning
- Statistical Natural Language Processing
- Reinforcement Learning
- Multi-agent Artificial Intelligence
- Bayesian Deep Learning
- Supervised Learning
- Approximate Inference and Learning in Probabilistic Models
- Probabilistic and Unsupervised Learning

Washington University in St. Louis

2016-2020, ST. LOUIS

BS Computer Science & BS Mathematics

GPA: 3.53/4.0
SAT Score: 2350/2400

ML Coursework:
- Bayesian Methods in Machine Learning
- Advanced Machine Learning
- Machine Learning
- Computer Vision
- Introduction to Machine Learning
- Introduction to Artificial Intelligence

Skills

Languages: Python • Java • MATLAB C++ • Bash • JavaScript • SQL

Web Development: AWS • HTML • CSS • PHP • Node.js

Data Analysis: SQL • Apache Pig • Hive • Impala • Hadoop MapReduce

ML Languages/Libraries: PyTorch • Julia • TensorFlow • Scikit-learn

Work Experience

Pulse / Co-founder

JULY 2020 - PRESENT, CAMBRIDGE

- Secured funding(more than $5k) from the MIT Sandbox Innovation Fund
- Using transformers for NLP analysis in Python to inform political campaigns.
- Integrating Twitter, Facebook, Google Trends APIs to create a data lake on AWS
- More info at: https://pulseboard.co

WashU REU Program - Big Data Analytics / National Science Foundation Fellow

MAY 2019 — MARCH 2020, ST. LOUIS

- Research at the intersection of Bayesian Machine Learning and Deep Learning in Professor Roman Garnett's lab.
- Improved policies for Active Search with Deep Learning techniques such as Grammar Variational Autoencoders and Deep Reinforcement Learning.
- Gained Machine Learning Engineering experience implementing SOTA algorithms
- Presented research findings at WashU summer poster conference
- The Python codebase I developed is publicly available at: https://github.com/MatthewGleeson/ActiveSearch

WashU Dept. of Engineering / Teaching Assistant

AUG 2019 — MAY 2020, ST. LOUIS

- TA for Bayesian Machine Learning, Fall 2019
  - held weekly office hours & graded coursework, 60 students
- TA for Machine Learning, Spring 2020, 100 students
  - Designed and administered final project(20% of grade) consisting of a series of Kaggle competitions, 80 students

Eclipse Ventures / Software Engineering Intern

MAY 2018 — MAY 2019, PALO ALTO

- Singlehandedly designed, developed and deployed a complex internal website for Q/A discussions, document hosting & sharing, and contact management used by Eclipse employees and CEOs of portfolio companies.
- Coded website in HTML, JavaScript and CSS, using Express.js and integrating various AWS services including DynamoDB, Cognito, S3, CodeCommit and EC2 to provide scalability.
- Deployed Docker containers for venture deal logging & analysis.

UCSD Dept. Of Computer Science / Research Assistant

JAN 2017-JUNE 2017, SAN DIEGO

- Hardware security research in Professor Ryan Kastner's lab
- Collaborated with PhD students in the Dept. of Computer Science to developing hardware-based fault attacks on the Advanced Encryption Standard (AES) with a focus on differential fault analysis (DFA) techniques.