RYLAN SCHAEFFER

SKILLS

Languages
Python
R
MATLAB
C++
SQL (MySQL, Postgres, SQLite)

Libraries
TensorFlow
PyTorch
Keras
NumPy

Operating Systems
Linux
macOS
Windows

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EDUCATION

University College London | September 2018 (Expected)
Master of Research, Cognitive Neuroscience
Coursework includes Advanced Deep Learning and Reinforcement Learning by Google DeepMind
Founded and currently manage UCL Artificial Intelligence Journal Club (14 speakers in first 12 weeks from DeepMind, OpenAI, Toronto, MILA, Stanford, Berkeley, Princeton, Oxford, and more)

University of California, Davis | June 2016
Bachelor of Science, Computer Science Engineering
Bachelor of Science, Statistics
Outstanding Senior Award, Department of Computer Science and Engineering
University of California Regents Scholar

EXPERIENCE

University College London | September 2017 - Present
Computational Neuroscience Researcher
Conducting research under Dr. Stephen Fleming to understand how metacognition detects and corrects erroneous decisions and improves future decision-making by building computational models.

Thermo Fisher Scientific | May 2017 - September 2017
Deep Learning Research Intern
Demonstrated the applicability of deep learning to DNA sequencing by researching, proposing, implementing, training and testing a sequence-to-sequence RNN-based architecture with 99.24% test accuracy. Identified missing TensorFlow functionality and implemented own solution. Constructed necessary pipelines for extracting data from MySQL, converting data to TFRecords, and creating queues for reading and batching data.

Adversarial Neural Cryptography (Personal Project) | December 2016 - April 2017
Deep Learning Python Developer
Implemented "Learning to Protect Communications with Adversarial Neural Cryptography" by Abadi and Andersen using TensorFlow.

Professional Online Sports Betting (Graduate Course Term Project) | January 2016 - April 2016
Python Developer
Developed data pipeline to profit from online daily fantasy sports websites. Scraped and cleaned NBA data. Modeled individual player performance using XGBoosting. Formalized lineup selection as integer programming problem and implemented solver that outperformed industry standard in 47% of cases and tied in 50%.

UC Davis, Dept. of Computer Science Undergraduate Researcher | Sept 2015 - June 2016
Python Developer
Led team to develop an online testing platform for use in UC Davis classes. Deployed in two courses to approx. 75 undergraduates. Built server to push test problems client-side and to accept student submissions.

UC Davis, Dept. of Computer Science Undergraduate Researcher | Jan 2015 - June 2015
MATLAB Developer
Developed and implemented an image analysis algorithm to predict radius of soot-obscured fuel droplets combusting aboard ISS for NASA. Reduced labeling time from 2.5 years to one week.

BLOG

Published analyses of exciting new papers in artificial intelligence research. To date, my posts have topped HackerNews and r/MachineLearning and surpassed twenty thousand unique readers in a month. Examples:
Neural Episodic Control by Pritzel et al.
Early Visual Concept Learning with Unsupervised Deep Learning by Higgins et al.
Overcoming Catastrophic Forgetting in Neural Networks by Kirkpatrick et al.

HONOR, LEADERSHIP AND SERVICE

1st Place, Powerhouse SunCode Hackathon 2017	4/2017
Chief Financial Officer/Chief Operating Officer, Associated Students of UC Davis	4/2014-2/2015
Undergraduate Rep, College of Engineering Dean Recruitment Advisory Committee	10/2014-6/2015
National Champion, 2011 Tournament of Champions, Congressional Debate	5/2011