Cooper Pellaton

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Education

Georgia Institute of Technology

BS Computer Science *Aug 2019*

Relevant Coursework:
Advanced Computer (Micro)Architecture, Compilers, Operating Systems, Algorithms, Big Data & Society

Extracurricular Activities:
President of Great Conversations, Financial Advisor to HackGT

Facts

Recipient of 1 US patent.

Attended 20+ hackathons.

Contributor to open source projects such as PsychoPy, Nylas Sync Engine, FastMail's JMAP specification, JMAP-Server, and Intel-Caffe.

Skills

Programming
Python, C++, TensorFlow, CUDA, (Py)Torch, Spark, Lua

Languages
English, French, Mandarin

Interests

AI/Ethics/Healthcare as it relates to the experience and outcome of usage.

Large-scale, distributed problems that relate to CV, and/or Deep Learning.

Work Experience

Research Intern - Alibaba   *Summer 2018*

Worked on the Data Analytics & Intelligence Team to conduct Systems and Machine Learning research on graph-embedding projects. The graph inference system produced from my research will be used on Taobao for 11.11 (Single's Day sale) reaching 600M+ users, and will become the default search algorithm.

Undergraduate Researcher - CABI   *Present*

Worked in the Wheeler Lab at Georgia Tech in the Center for Advanced Brain Imaging. Used Deep Learning on neuroscience studies to find previously unkown medical characteristics and correlations.

Developed an automated pipeline for the processing of raw scanner images (DCMs) to a Deep Learning model yielding decision factor correlations.

Deep Learning Intern - Video++   *Summer 2017*

Travelled to Shanghai, China to work for Video++ ($600M USD evaluation). Assumed the position of Interim Chief Scientist and lead a team of 15 people working on core product (ML/DL & CV for video advertising).

Shipped 10x speed improvement to the core processing pipeline and algorithm. Architected an entirely new pipeline with increased performance in 1 month.

Software Developer - Cigna   *Summer 2016*

Worked on the Software Engineering & Innovations team to ship a continuous integration pipeline, and internal dashboard. Additionally, developed a proof of concept for an elderly healthcare project.

Worked directly with IT VP Eric Consolazio on an intercompany collaboration that connected Cigna and Yale (details held under NDA).

Personal Projects

fMRI Toolbox

csh, Bash, C, Python
A suite of tools ranging from 4DFP and time-series realignment to ROI discovery and statiscial analyis of BOLD responses. Predominant research tools at CABI.

Highlights

Python, Tensorflow
2nd place at YHACK 16 and winner of the A+E Challenge. YouTube powered by ML and CV to extract key contents of videos and present them to end user.

Judgd

Node.js, Python, TensorFlow
HackGT 2016 (won best use of AWS). Deeplearning hack that uses Devpost submissions to predict hackathon winners. Model composed of 52K points.

ResQ

TypeScript, Tensorflow, Python, Java
Winner of HackMIT 2017's Made from Scratch prize. A suite of software that uses machine learning and augmented reality to help disaster responders prioritize triage victims.

PrintShare

Node.js, .NET
An EMR interoperability hack which leverages printing, postscript and AWS Lambda to exchange medical records freely.