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Education

Georgia Institute of Technology • M.S. Computer Science, Machine Learning specialization May 2019
Research: Interactive Deep Learning Classification (CVPR) • Visualizing Adversarial Attacks (ACV) • Graphical Regions of Interest & Saliency
University of Southern California • B.S. Computer Science & Business Administration August 2017
Computer Security specialization • USC Emerging Leaders • ITS Computer Consultant GPA: 3.4

Work

Spotify • Security Summer 2018
Data Science Intern New York, NY
> Scored account takeover risk with unsupervised ML & probabilistic models on feature extraction of access data stream pipelines

Tencent • YouTu Lab Winter 2017
Deep Learning Research Intern Shenzhen
> Trained RCNN, FPN, one-stage object detectors on VOC w/ custom loss & hyperparameter tuning for speed/accuracy tradeoffs

Apple • macOS Performance Summer 2016
Software Engineering Intern Cupertino, CA
> Designed timesorted inverted index to instrument bottleneck processes in activity interval from context switch thread kernel logs

Reelio • PennApps Fellows Summer 2017
Software Engineering Intern Philadelphia, PA
> Refactored Django REST API, unit/integration tests & browser automation testing. Ran agile SDLC methodologies with JIRA

Research

Conferences • CVPR: "Interactive Classification for Deep Learning Interpretation", Demo, arXiv. Cabrera et al. 2018.
Papers • "AdVis: Visualizing and Attributing ML Attacks to Adversarial Inputs in Real-time", Jason Lin, Dilara Soylu. 2018.
• "Detecting Graphical Regions of Interest with Gaussian Process Bayesian Optimization", Lin et al. 2018.
Open source • Tensorflow.js: backprop gradient for DWConvOps • AdVis.js: dynamic visualization of FGSM attacks
Coursework • Advanced Computer Vision · Machine Learning · Probabilistic Graphical Models · Programming Languages
MOOCs • Data Mining Specialization (UIUC) · Deeplearning.ai Specialization · AI for Robotics · Robotics: Perception (UPenn)

Academia

Intel® AI Academy • Artificial Intelligence Student Ambassador 2018-2019
> Academic leadership program for graduate students from top universities worldwide to further innovation in AI and deep learning

Georgia Tech • Graduate Researcher • Polo Club of Data Science Spring 2018
> Advised by Prof. Polo Chau on interactive image classifier visualization & real-time inpainting webapp with React + Tensorflow.js

NASA Jet Propulsion Laboratory • Capstone Lead • VR Collaborative Engineering Platform Spring 2017
> Architected modular VR simulation to explore IMU, EMG, IR sensors as input for concurrent, cross-device collaboration in UnityVR

USC Viterbi • Teaching Assistant • CSCI-201 Software Engineering Fall 2016
> Led weekly labs, grading, office hours for intermediate CS course on GUI, multi-threaded, TCP/IP socket & parallel programming

Competitions

Facebook Global Hackathon Finals • 3rd Place Menlo Park, November 2017
> Built VR training scenes with Speech-to-Text input for implicit-tagged bias-busting and sentiment analysis with LSTM

Stanford TreeHacks • Facebook's Choice, Amazon Best Alexa Experience, Best Data Visualization Palo Alto, Feb 2017
> Prototyped Arduino, AWS bottle & Alexa food tracking intelligence to visualize calorie breakdown and meal suggestions

UCLA IDEA Hacks • 3rd Place by IEEE, Atmel Los Angeles, January 2016
> "Music Follows You": engineered spatial-aware (Wi-Fi RSSI) Arduino mod to adjust paired speakers' volume using bitwise PWM

UMich MHacks 6 • Best overall Microsoft Hack Ann Arbor, September 2015
> Trained Kinect sensor with HAAR classifiers to recognize RGB+D data for serialized motor-haptic navigational feedback

Leadership • KPCB Engineering Fellow · Director of Development @The Coding School · PwC Elevate · PennApps Mentor

Skills

Learning: TensorFlow, ReactJS, scikit-learn, PyTorch, R **Experience:** VR, Sensors, D3.js, Caffe, OpenCV, Unity, C#
Proficient: Python, JavaScript, Java, C/C++, Objective-C, MATLAB, Android, Arduino, UNIX, Django, MySQL, LaTeX