

Education

Georgia Institute of Technology

May 2019

M.S. Computer Science, Machine Learning specialization

Coursework: Advanced Computer Vision, Machine Learning Theory, Probabilistic Graphical Models, Programming Languages

University of Southern California

August 2017

B.S. Computer Science & Business Administration, cybersecurity specialization

GPA 3.4

Work

Tencent • BestImage Lab • ML Algorithms

Winter 2017

Deep Learning Research Intern

Shenzhen, China

> Develop RCNN, FPN, SSD, one-stage object detectors at industry-leading AI Lab & ablation study on speed/accuracy tradeoffs

Apple • macOS Performance

Summer 2016

Software Engineering Intern

Cupertino, CA

> Designed Obj-C instrument tool to derive bottleneck processes in user activity from automated analysis of OS trace logs

Georgia Tech • Polo Club of Data Science

Spring 2018

Graduate Researcher

Atlanta, GA

> Advised by Prof. Polo Chau on interactive Deep Learning visualization and applying inpainting GANs to human-centered AI

Reelio • PennApps Fellows

Summer 2017

Backend Development Intern

Philadelphia, PA

> Browser automation + refactored Django REST, API unit tests & C.I. with CircleCI. Ran agile dev. practices towards series B

NASA JPL • VR Engineering Collaboration • Capstone

Spring 2017

Tech Lead, Team Representative

Los Angeles, CA

> Architected HCI platform using biosensor input (IMU, EMG, IR) to drive real-time P2P prototyping collaboration w/ UnityVR

IBM

Summer 2014

Project Assistant Intern

Beijing, China

> Managed user acceptance testing and researched client supply chain to define ERP procurement workflow in JavaFX GUI

Competitions

Facebook HQ Global Hackathon Finals – 3rd Place

November 2017

> Built VR unconscious bias training scenes with Speech-to-Text input for implicit bias-busting and sentiment analysis with LSTM

Stanford TreeHacks – Facebook's Choice, Amazon Best Alexa Hack, Qualtrics Best Data Visualization

Feb 2017

> Pioneered conversational food intake tracking intelligence with real time visualization of calorie breakdown and meal suggestions

> Prototyped IoT bottle to log water consumption to AWS using ultrasonic sensor for water levels & color sensor for fluid detection

UCLA IDEA Hacks – 3rd Place by IEEE, Atmel

January 2016

> Implemented spatially-aware (Wi-Fi RSSI) audio mechanics system that modulates synchronized speakers' volume using bitwise Pulse Width Modulation based on user proximity (dBm to distance) to modular, Arduino-connected speakers

UCLA LA Hacks – Top 10, Runner-up: LA Olympic 2024

May 2016

> Architected iOS app connecting Microsoft band & Arduino BLE to visualize HR heatmap of sports game attendees via LED

UMich MHacks 6 – Best overall Microsoft Hack

September 2015

> Trained Kinect sensor with HAAR classifiers to recognize objects+depth data for Arduino controlled haptic navigational feedback

Leadership

Research – *"Understanding Deep Neural Networks through Visual Exploration and Attribution", Hohman et al. TBD.

– "Two-stage vs. One-stage detectors: State-of-the-art Detection and Tracking", in progress. 2018.

– "Network Virtualization: Distributed Computing and a more secure Internet", a survey. 2016.

– "Quantum Computing and its effects on Deciphering Public Key Cryptosystems", a survey. 2015.

Conference – Google LA DevFest '16, WWDC '16, IEEE EMC&APEMC '16, ForwardJS Web '15, TechCrunch Disrupt '14

Campus – Orientation Advisor, ITS Computer Consultant, USC Consulting Club, ACM, USC 3DPrinting4E, Alexa Prize

Leadership – CS Teaching Assistant, Head of Development@Coding School, PwC Elevate SLP, USC Emerging Leaders

Skills

Proficient: C/C++, Java, Python, MATLAB, Objective-C, Android, Arduino, JavaScript, UNIX, Django, MySQL, LaTeX

Learning: Caffe, Docker, TensorFlow, CUDA, PostgreSQL **Experience:** OpenCV, Unity, D3.js, C#, AWS, NoSQL, Haskell