JEFFREY S HUANG

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Education:

Carnegie Mellon University
Aug 2016 - May 2020 | Pittsburgh, PA
B.S. in Electrical and Computer Engineering
Minor in Computer Science
GPA: 3.30 / 4.00
Dean's List

Skills:

Technical:
Python (Tensorflow, NumPy, Pandas)
C, C++, SML,
Rust, Go,
Matlab, Java
Verilog
HTML, JS, CSS
LATEX

Languages:
English (native),
Cantonese, Mandarin

Coursework:

Distributed Systems*
Structure and Design of Digital Systems*
Graduate Introduction to ML *
Introduction to Computer Systems
Functional Programming
Principles of Imperative Programming
Fundamentals of Programming
Signals and Systems
Concepts of Mathematics
Introduction to Probability Theory
Entrepreneurship

Extracurricular Activities:

Lambda Phi Epsilon
- Delegate to the Multicultural Greek Council*
- Service Chair
- Culture and Events Chair

Alpha Phi Omega
Asian Students Association

*indicates current coursework or position

Experience:

Software Research Intern | CMU CyLab Usable Security and Privacy Lab
June 2018 – Aug 2018 | Pittsburgh, PA
- Worked on FuzzML, a project designed to develop and evaluate a method of using machine learning to detect XSS vulnerabilities and bugs in JS engines via fuzzing
- Helped to develop and improve multiple ML models in Python and Rust
- Created testing infrastructure to quantitatively measure their effectiveness

Technology Enhanced Facilities Operator | Computing Services
Jan 2018 – present | Pittsburgh, PA
- Responsible for staffing and maintaining CMU's computer Labs, as well as providing customer service and community assistance

Capital One Software Engineering Summit
Jan 2018 | Arlington, VA
- Selected from over 500 applicants to participate in a week-long program at Capital One Labs, working with and learning from Capital One engineers
- Winner of final hackathon with the theme "changing banking for good", developing a banking application (see below)

Research Assistant | CMU Human-Computer Interaction Institute
Jan 2017 – Aug 2017 | Pittsburgh, PA
- Worked on the Walnut Android application which aimed to use mobile sensors to track user health and behavior
- Evaluated UI, proposed features, designed screen mockups
- Researched user behavior and conducted usability study and presented at HCI Demo Day

Summer Intern | Top One Trading Company
June 2015 – Aug 2015 | New York, NY
- Helped to optimize and process sales data, ensuring orders are processed efficiently

Featured Projects:

RAM: Real Money
1st place winner in Capital One Software Engineering Summit Hackathon
- Integrated Chrome Extension, IOS App, and a DialogFlow Chat Bot that calculates "real cost" of purchases from the expected additional interest costs missed stock gains based on banking history
- Cost of items on Amazon Cart is automatically updated by own real cost calculator and banking API

RamenX
2018 Build 18 Hardware Hackathon
- Helped design and create a smart automated ramen maker controlled remotely via Wi-Fi
- Featured on CMU College of Engineer 2018 Spring Semester Recap

Wiki.py
2017 HackCMU Hackathon
- Used TensorFlow to create an Android App with a simple convolutional neural network trained to detect household items and dog breeds, and the option to search it on Wikipedia