

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:

Embedded Systems*
Data Structures and Algorithms*
Cryptocurrencies and Blockchains*
Distributed Systems
Graduate Introduction to ML
Introduction to Computer Systems
Functional Programming
Principles of Imperative Programming
Fundamentals of Programming
Structure and Design of Digital Systems
Signals and Systems

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 – Dec 2018 | 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 from Capital One engineers with AWS, IOS,
– 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

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

Selfy

Finalist for 2018 HackThisHelpKids Hackathon
– Created a web and mobile application that used facial recognition to monitor children's day to day emotions, analyzing and tracking it over the course of thirty days to provide a quantitative measurement of mental health flags
– Integrated simple game and reward system to incentive children to record their emotions

RamenX

2018 Build 18 Hardware Hackathon
– Designed and created a smart automated ramen maker controlled remotely via Wi-Fi
– Featured on CMU College of Engineer 2018 Spring Semester Recap