Bradley Zhou

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EDUCATION

Carnegie Mellon University
B.S./M.S., Electrical and Computer Engineering, '21
minor in computer science
GPA: 3.42

RELEVANT COURSEWORK

Data Structures
Computer Systems
Discrete Math
Embedded Systems
Functional Programming
Parallel Computer Architecture*
Parallel and Sequential Data Structures and Algorithms*
Cryptocurrencies and Blockchains*
**denotes Spring 2019*

SKILLS

Programming

Proficient: C/C++, Python
Familiar: SML, Java, x86 assembly, ARM assembly, SQL

Tools & Frameworks

Git, HTML/CSS, Flask, Bootstrap, Jekyll

HONORS

aug '18 **SWE Summit** *Capital One*

may '18 **Dean's List** *Carnegie Mellon University*

aug '17 **Presidential Scholarship** *Carnegie Mellon University*

LEADERSHIP

Asian Students Association
head of public relations
dec '17 – dec '18

EXPERIENCE

Facebook menlo park, ca
incoming production engineer intern sept '19 – dec '19
· Fall 2019

TransMarket Group chicago, il
incoming software engineer intern may '19 – aug '19
· Core systems development

Carnegie Mellon University pittsburgh, pa
teaching assistant jan '19 – present
· 15-213: Introduction to Computer Systems

Pittsburgh Supercomputing Center pittsburgh, pa
research intern june '18 – aug '18
· Developed machine learning programs for computational studies of high entropy alloys

Capital One arlington, va
software engineering summit aug '18 – aug '18
· One of 23 students selected from 700 applicants to attend an intensive, week-long technical training program
· Explored technologies such as app development, machine learning, and AWS

PROJECTS

Embedded Real Time Kernel
Kernel run on a Raspberry Pi featuring serial I/O, threading, context swapping, a scheduler, and a mutex interface

Website Prototyping System
Processes images using OpenCV to be sent via a React app to an API that transforms the hand-drawn layouts to dynamically render HTML/CSS in real-time

Podcast Engine
Web app created with Flask to organize subscriptions, visualize popular podcasts, and get recommendations for new podcasts

HQ Bot
Automates search of answers to questions from the popular gameshow trivia app "HQ" using Tesseract OCR and Google Search API

Multi-threaded Web Proxy
Concurrent web proxy that forwards HTTP GET requests, caches web objects, and handles simultaneous connections

Updated 3/18/19