BRADLEY ZHOU

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EDUCATION

Carnegie Mellon University
B.S., Electrical and Computer Engineering, dec '20
minor in computer science

RELEVANT COURSEWORK

Data Structures
Computer Systems
Discrete Math
Embedded Systems
Functional Programming
Parallel Computer Architecture
Parallel and Sequential Data Structures and Algorithms

SKILLS

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

TOOLS & FRAMEWORKS
Unix, 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

Club Tennis
social chair
may '19 – present

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

PROJECTS

Threaded Garbage Collector
Thread-safe mark and sweep garbage collector for C implemented using pthreads and fine grained locking to accelerate performance

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 5/17/19