

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

incoming production engineer intern
· Fall 2019

menlo park, ca
sept '19 – dec '19

TransMarket Group

incoming software engineer intern
· Core systems development

chicago, il
may '19 – aug '19

Carnegie Mellon University

teaching assistant
· 15-213: Introduction to Computer Systems

pittsburgh, pa
jan '19 – present

Pittsburgh Supercomputing Center

research intern
· Developed machine learning programs for computational studies of high
entropy alloys

pittsburgh, pa
june '18 – aug '18

PROJECTS

Parallel Garbage Collector

Concurrent, thread-safe mark and sweep garbage collector for C implemented using
pthreads and fine grained locking

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