

BRADLEY ZHOU

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EDUCATION

Carnegie Mellon University

B.S./M.S., Electrical and Computer Engineering, '21
minor in computer science
GPA: 3.51

RELEVANT COURSEWORK

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

**denotes Spring 2019*

SKILLS

PROGRAMMING

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

TOOLS & FRAMEWORKS

Git, HTML/CSS, Flask, Bootstrap, Jekyll

HONORS

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

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 Spring 2019

pittsburgh, pa
jan '19 – present

Pittsburgh Supercomputing Center

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

pittsburgh, pa
june '19 – aug '18

Capital One

software engineering summit
· 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

arlington, va
aug '19 – aug '18

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