

BRADLEY ZHOU

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EDUCATION

Carnegie Mellon University
B.S., Electrical and Computer
Engineering, may '21
minor in computer science

RELEVANT COURSEWORK

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

SKILLS

PROGRAMMING

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

TOOLS & FRAMEWORKS

Unix, Git, HTML/CSS, Flask,
Bootstrap, Jekyll

HONORS

aug SWE Summit
'18 Capital One
may Dean's List
'18 Carnegie Mellon University
aug Presidential Scholarship
'17 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](#)
· Video Infrastructure

menlo park, ca
sept '19 – dec '19

TransMarket Group

[software engineer intern](#)

· Developed a distributed work queue to streamline testing of core systems and trades by enabling users to submit jobs to run and benchmark their programs automatically while also removing the previous limitation of no concurrent users
· Extended this system by creating a trade to benchmark latencies and incorporating it into a continuous integration pipeline for regression testing

chicago, il

may '19 – aug '19

Carnegie Mellon University

[teaching assistant](#)

· Taught recitation, led review sessions, and hosted office hours for graduates and undergraduates taking 15-213: Introduction to Computer Systems

pittsburgh, pa

jan '19 – may '19

Pittsburgh Supercomputing Center

[research intern](#)

· Developed statistical models using scikit-learn and TensorFlow to assist in computational studies of high entropy alloys

pittsburgh, pa

june '18 – aug '18

PROJECTS

Threaded Garbage Collector

Thread-safe mark and sweep garbage collector for C implemented using fine-grained locking and pthreads 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