

AMY HUANG

amy-huang.github.io

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EDUCATION

Brown University

Providence, RI

Sc.B. Computer Science

Concentration GPA: 3.87

Expected May 2020

SKILLS

Programming/Scripting Java, C, Matlab, Verilog, SQL, Python, Unix Shell (Bash)

Version Control Git, SVN

Data Visualization R, Matplotlib, d3.js, Latex

Hardware Simulation ModelSim-Altera (FPGA), Gem5

COURSEWORK

Databases

Algorithm Design

Probability and Statistics

Discrete Mathematics

Computer Architecture

Linear Algebra

Multivariable Calculus

Fundamentals of Computer Systems

Java Programming

PROJECTS

[pim_power](#) Python and Bash energy/power consumption estimation tool for use with computer architecture simulators Gem5 and McPAT

[stable marriage random solver](#) C implementation of same name algorithm

WORK EXPERIENCE

Head Teaching Assistant (HTA)

CS2: The Digital World

Brown CS | March 2018 - present

- Work with co-HTA to direct 8 undergraduate teaching assistants (UTAs) to grade and hold weekly labs, hours for 200-person introductory computer science class
- Create grading scripts in Python to coordinate anonymous grading and feedback

Undergraduate Research Grant (UTRA)

Brown Engineering | June 2018 - August 2018

- Wrote scripting tool in Python and Bash to analyze hardware simulation data
- Modified C++ hardware simulator to test novel CPU/memory set-ups

Computation Intern

Lawrence Livermore National Laboratory (LLNL) | June 2017 - August 2017

- Programmed a parallel version of Nanopond, an open source artificial life simulator in C
- Analyzed performance trends in R

Undergraduate Teaching Assistant (UTA)

CS22: Discrete Math

Brown CS | September 2017 - December 2017

- Held weekly hours; graded written assignments for 250-person class
- Designed logic/circuits homework with 4-person UTA team