

AMY HUANG

amy-huang.github.io

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EDUCATION

Brown University

Providence, RI

Sc.B. Computer Science

Concentration GPA, 3.8

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

Software Engineering

Formal Methods

Databases

Algorithm Design

Probability and Statistics

Discrete Mathematics

Computer Architecture

Linear Algebra

Multivariable Calculus

Computer Systems

WORK EXPERIENCE

Software Engineering Intern

Appian HQ @ Tysons, Virginia | June - August 2019

- Worked on a team moving the Appian product entirely onto Kubernetes
- Helped write logic to manage Appian resources in Helm and Go

Head Teaching Assistant (HTA)

CS2: The Digital World

Brown CS | September - December 2018

- 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 - 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 - August 2017

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

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