Amy Huang

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Education

Brown University Providence, RI
Sc.B. Computer Science, *Concentration GPA:* 3.87 Sep 2016 - May 2020

Relevant Courses: Computer Organization and Architecture, Probability and Statistics, Discrete Math, Algorithms and Data Structures, Linear Algebra, Multivariable Calculus, Intro to Computer Systems

Skills

Proficient: Python, Bash, C, C++, Java, R
Familiar: HTML/CSS, JavaScript

Work Experience

Head Teaching Assistant (HTA), CSCI 0020: The Digital World Providence, RI
Brown University, Professor Don Stanford March 2018 | December 2018

- Hire, train, and manage 8 teaching assistants to hold weekly labs and hours
- Oversee curriculum development and student-facing interfaces e.g. email, class website
- Direct administration of 200 person non-concentrator, introductory computer science class together with co-HTA and professor

Undergraduate Teaching and Research Award (UTRA) Providence, RI
Brown University, Professor R. Iris Bahar June 2018 | August 2018

- Surveyed research on lab group's specialty in computer architecture to find software tools for integration with our customized infrastructure
- Wrote power consumption estimation tool in Python and Bash that summarizes trends from hardware simulation data across different CPU/memory setups

Open Source Contributor Remote
Integrative Model for Parallelism (IMP) November 2017 | February 2018

- Extended documentation of a physics simulation code called LULESH for integration with IMP, an open source framework for parallel computation written by Victor Eijkhout at the Texas Advanced Computing Center

Undergraduate Teaching Assistant (UTA), CSCI0220: Discrete Math Providence, RI
Brown University September 2017 | December 2017

- Designed and wrote problems for logic and circuits homework
- Held weekly hours and graded assignments with a sub-team of the TA staff

Computation Intern Livermore, CA
Lawrence Livermore National Laboratory (LLNL) June 2017 | August 2017

- Designed a parallel version of Nanopond, an open source artificial life simulator and Monte Carlo simulation, in C and OpenMP with computer scientist Barry Rountree
- Collected and analyzed data about behavior, visualizing it in R

Community Service

Student Volunteer, Supercomputing Conference 2017
Selected for Students@SC travel grant and Mentor-Protégé program; set up SC17 workshops and panels

Associate, Brown Political Review Data Board
Develops data visuals with Google Sheets and Illustrator to go with an article in each BPR issue on social issues in economics, tech, and world politics