Samantha Andow

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Harvey Mudd College

Major GPA: 3.3

May 2018

Dean's List Spring 2015, Fall 2015, Spring 2016

Relevant Coursework: Data Structures and Program Development | Discrete Mathematics |

Computer Systems | Computability and Logic | Linear Algebra | Multivariable Calculus

In Progress: Computer Security | Domain Specific Languages | Algorithms | Programming Languages Skills

C++ | Java | Python | C | Scala | Haskell | LATEX | SVN | Git

Project Experience

SIGCSE Paper, MyCS Summer Research

May-Aug 2016

Synthesized data from 5,000 students surveys to write a research paper on computer science education Recommended improvements to the curriculum in the paper based on teacher feeback and data analysis Submitted paper to Special Interest Group in Computer Science Education Conference

MyCS Website, MyCS Summer Research

May-Aug 2016

Led 5 students to create a website to host our middle school computer science curriculum, called MyCS Oversaw migration of the curriculum from the old, difficult to use website to the new, simple website Developed website to be more user friendly based on feedback from professional developments

ChunkyString, Harvey Mudd College

Apr 2015

Constructed a doubly linked list of lists in C++ to have the functionality of a string object Ensured our implementation had constant insert and deletion time, while maintaining space usage

Autonomous Nerf Turret, Harvey Mudd College Hardware Hackathon

Oct 2014

Collaborated with 3 others over 15 hours to remodel a Nerf gun into an autonomous turret Learned Raspberry Pi control flow and IO functionality to interact with Nerf gun

Programmed Nerf gun with a Raspeberry Pi to turn and shoot continuously within the a turning radius

Work Experience

MyCS Research Assistant, Harvery Mudd College

May-Aug 2016

Led 5 other students to improve an existing middle school computer science curriculum, called MyCS Ran 3 professional developments for 30 teachers, who teach 4,000 students in the 2016-2017 school year Analyzed 5,000 student surveys from the 2015-2016 year to study the effects of the curriculum

Adjusted curriculum based on teacher feedback and student data to facilitate education of all students Grader and Tutor, Harvey Mudd College Computer Science

Tutor and grade for Data Structures/Program Development and Principles of Computer Science

Jan 2015-Present

Tutor, Harvey Mudd College Homework Hotline

Sep 2014-Present

Tutor students over the phone in math and science

Leadership Experience

South Dorm President, Harvey Mudd College

May 2015-Present

Communicate with faculty and staff to create a happy, healthy living and working environment Pass legislature in Harvey Mudd College Student Senate that shapes student life

South Dorm Social Representative, Harvey Mudd College

May 2014-May 2015

Allocated a budget to parties and collaborted with administration to ensure a safe, fun social culture

Service Experience

Science Bus Teacher, Harvey Mudd College

Aug 2014-Jan 2015

Demonstrated science experiements in elementary schools to encourage interest in STEM subjects

Volunteer Trainer, Halleck Creek Ranch

Jun 2010-Aug 2014

Helped children with disabilities go on horseback trail rides while ensuring a safe, social experience Trained new volunteers in horse management and rider interactions