

Education

Carnegie Mellon University

B.S. Computer Science, May 2018

B.S. Psychology, May 2018

GPA: 3.95

Dean's List, High Honors

Skills

Code

C, Python, SML, C#, Java

HTML, CSS, XAML, SQL

JavaScript, x86-64 Assembly

Platforms

UNIX Shell: bash, gdb

Windows: UWP, Pen, IoT

HoloLens, Android, Raspberry Pi

Courses

Computer Systems

Parallel Algorithms

Functional Programming

Theoretical Computer Science

Matrix Theory

Prosocial Behavior

Life

You're Awesome Campaign

- Craft solutions to empower students to do awesome things
- Post, chalk, draw, and fence-paint encouraging messages
- Start movement in encouraging others to practice gratitude

Food Drives

- Donated 1,000+ lbs. and saved \$1,300 worth of food

Experience

Back-End Engineer

CMU Robotutor

Feb 2016 – Present

Supporting underprivileged children in independent learning

Created Automated Kiswahili Multiple Choice Question Generator

- Generated choices by extracting, parsing, and analyzing 140,000+ Kiswahili words as word root and part of speech in Java and SQL
- Generated common core data to be utilized across other features
- Built story image, text, and metadata extractor in Java and Python
- Synthesized story data into one framework-readable JSON file

Teaching Assistant

CMU Computer Science

May 2016 – Present

Fall 2016: Assisting 550+ students in 15-213: Computer Systems

Summer 2016: Assisted 400+ students in 15-213, 15-122, and 15-112

- Regulated grading process and assisted faculty with logistics
- Processed 40% of online questions amongst 8 instructors
- Led initiatives supporting student wellbeing, such as KitKat TA Hours

Course Developer

Professor Randal E. Bryant

Summer 2016

Reengineered the C Memory Allocator Lab

- Designed new C starter code for future course iterations
- Resolved a 15-year-old bug in existing implementation
- Debugged grading script on false positives

Research Assistant

CMU Relationships Lab

May 2016 – Present

- Code couple discussions on 30+ interaction criteria, including open communication, confidence in partner, and responsiveness
- Explore technology integration to improve research efficiency, such as OCR for future paper-based components

Selected Projects

Plan

BrickHack 2, continued development

Mar 2016 – Present

- C#, XAML | APIs: Cortana, Surface Pen, UWP | Front-end, UI/UX
- Crafted paper-like digital calendar by integrating digital pen
 - Enabled natural language voice commands with Cortana

STEMLabs

HackMIT 2016 Top 10 Hack, team of 4

Sep 2016

- C# | HoloLens, Unity | Back-end
- Visualized depth-first-search algorithm in 3D on the HoloLens
 - Written UWP library for textbook optical character recognition