

Education

University of Illinois | B.S., Computer Science
• Minor in Mathematics, GPA: 3.61

Aug 2012 - May 2016

Hononegah High School

Aug 2008 - May 2012

Work Experience

University of Illinois | Engineering Learning Assistant

Aug 2015 - Present

- Designed over a dozen lesson plans for the introductory engineering orientation course
- Teach a class of over thirty students

University of Illinois | CARE Tutor

Aug 2013 - Present

- Tutor students in a variety of subjects between Mathematics, Computer Science, and Statistics
- Am sole teacher in an office hour for first six introductory math courses

University of Illinois | Course Design

May 2015 - Aug 2015

- Helped design a new Data Structures course for non-CS majors using D3 and Python
- Worked with several popular API's like Wikipedia, Google, and Spotify in Python
- Designed demos, homework, and lecture content for the semester-long course

Research Experience

University of Illinois | Malicious Flash Drives

Jan 2015 - May 2015

- Tested security at UIUC by dropping psuedo-malicious flash drives around campus
- Wrote an Android application to monitor progress as we dropped flash drives around campus
- Worked with Google App Engine in Python and Android in Java

University of Illinois | SmartTaxi System

May 2014 - Aug 2014

- Used 4TB of New York taxi data to simulate their behavior with a SmartTaxi system
- Implemented ArcFlags and Contraction Hierarchies as well as KD-Trees to improve run-time
- Improved algorithm developed by MIT to calculate velocities on city streets

Relevant Coursework

Artificial Intelligence
Algorithms I, II, Graduate Topics
Calculus
Computer Architecture
Data Science
Data Structures
Differential Equations
Discrete Structures and Mathematics
Hypergraphics
Linear Algebra
Machine Learning (Signal Processing)
Numerical Methods
Probability and Statistics I, II

Extra Curriculars

R/P Volunteer Chair 2015
HackIllinois Volunteer Chair 2015
Women in Computer Science 2014 - 2015
ACM 2013 - 2015

Languages

Proficient: Python, Java, LaTeX
Knowledgeable: Java (Android), C, C++
Familiar: Javascript (D3), MATLAB, MIPS

Distinctions

Google Games - 1st Place 2015
Campus Honors Program 2012 - 2015
Dean's List 2012 - 2014