

Education

University of Illinois | B.S. M.S., Computer Science
• Minor in Physics, GPA: 3.87

Aug 2013 - May 2018

Work Experience

Computer Science @ University of Illinois | CS374 Course Assistant

Aug 2016 - Present

- Lead discussion and graded homeworks for Algorithms and Models of Computation course

Shibuya Kogyo | Software Developer

May 2015 - July 2015

- Developed database systems to deliver real-time machine statuses of large production plants to thousands of concurrent web-clients
- Worked mostly as a back-end developer using NodeJS and Redis with some front-end work on the graphical interface using SVG and Javascript

Computer Science @ University of Illinois | CS125 Course Assistant

Aug 2014 - Dec 2014

- Tutored, lead discussion and provided office hours on Java and introductory Data Structures

Research Experience

Physics @ University of Illinois | Undergraduate Research Assistant

Jan 2016 - Present

- Performed research under Prof. Lucas Wagner's *QWalk Project*
- Implemented Multiple-Try Metropolis algorithm for the Quantum Variational Monte Carlo code in C++

Past Projects

Feel-the-News, Sentiment Analyser and Automatic News Crawler | Programmer

Dec 2015

- Designed an algorithm that automatically crawls news articles, performs sentiment analysis, category classification and complexity rating using the Naive-Bayes Algorithm and stores into a MySQL database
- Produced a web interface for database interaction, allowing the users to search news based on their analysed statistics

Android Camera Real-Time Image Processing App | Programmer

Apr 2015

- Produced a native multi-threaded app that performs color filters, Gaussian blur, Sobel edge detection and simple motion tracking on the live camera feed

Relevant Coursework

Algorithms I, II
Computer Architecture
Data Structures
Database Systems
Differential Equations
Discrete Structures and Mathematics
Linear Algebra
Numerical Analysis
Machine Learning
Quantum Mechanics I

Extra Curriculars

Tau Beta Pi Engineering Society Treasurer 2015-2016
Tau Beta Pi Engineering Society President 2016-2017

Computer Languages

Proficient: C++, Python
Knowledgeable: C, Java
Familiar: Javascript

Distinctions

Dean's List 2013 - 2015
James Scholar 2013 - 2016