

## Education

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University of Illinois | B.S. M.S., Computer Science  
• Minor in Physics, GPA: 3.9

Aug 2013 - May 2018

## Work Experience

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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

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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

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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

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

## Extra Curriculars

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

## Computer Languages

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

## Distinctions

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