

# Kyle Herndon

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## Education

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### University of Illinois at Urbana-Champaign

Computer Science Major

- CS 225-Data Structures
- CS233-Computer Architecture (Enrolled)
- PHYS 225-Relativity (Enrolled)

### Thomas Jefferson High School for Science and Technology

Class of 2015

- Quantum Physics and Optics Research
- Relativity, Electrodynamics, and Quantum Mechanics
- Artificial Intelligence (Python)
- Parallel Computing (C)
- Computational Physics (Mathematica)
- AP Computer Science
- Analog Electronics
- Digital Electronics

## Skills

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**Languages:** Java, C++, Python, C, Mathematica, Javascript, HTML, CSS

**Tools and Frameworks:** Node, JQuery, Angular, Express, MongoDB, Git

## Computer Science Experience

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### Computing Research Association

Intern | Summer 2014

- Managed and extended database functionalities, updated website, and designed email campaigns for events

### Quantum Physics and Optics Research Project

Lead Programmer | Fall 2014 - Summer 2015

- Worked in a team to produce a research project and a research paper
- Lead programmer for the project: a genetic algorithm to maximize accuracy of simulated quantum Hamiltonians

### Hackathons

Participant | Fall 2012-Present

- Attended hackathons from PilotDC to PennApps, working with hardware such as Oculus Rift and Google Glass and frameworks such as MongoDB, Express, Node, JQuery, Meteor, and OpenCV
- Earned Third Place at PilotPhilly 2013 and Most Useful Everyday App at PilotPhilly 2015

## Relevant Extracurricular Activities

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### Technology Student Association

Founder/President | Fall 2012 -Summer 2015

- Founded the chapter and was elected as president for all three years
- The chapter earned the most outstanding/competitive school in the state award three times
- Earned awards for being a most competitive member and member of the year at the state level in addition to many awards for various individual competitions such as Software Design and Extemporaneous Presentation

## **Electronics Club**

Co-President/Project Manager | Fall 2011 - Summer 2015

- Club president responsible for leading the club and leading a smaller project group
- Participated in the design and construction of electronics projects such as an LED cube utilizing multiplexing