

# JACOB WALLER

## Quality Engineer

### CONTACT

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### EMBEDDED SYSTEMS

Arduino, Raspberry Pi,  
CompactRIO, RoboRIO

### COMPUTER LANGUAGES

Fluent: Java, C, C++  
Experienced: JavaScript,  
Python, SQL

### CLOUD PLATFORMS

Google Cloud Platform, Amazon  
Web Services

### PROGRAMMING COMPETITIONS

ACM @ UIC 2017 – 1<sup>ST</sup> Place  
UEvansville 2016 – 3<sup>RD</sup> Place  
SWIC 2016 – 2<sup>ND</sup> Place  
SBU 2015 – 3<sup>RD</sup> Place

### EDUCATION

**Bachelor of Science, Computer Science** Aug 2016 – Dec 2019  
University of Illinois at Chicago

### WORK EXPERIENCE

**Undergraduate Teaching Assistant** Jan 2017 – Present  
**University of Illinois at Chicago – Computer Science**

- Direct review sessions for students preparing for exams.
- Instruct students during lectures.
- Monitor students during lab sessions.
- Grade homework and tests.

**Research & Scientific Aide** Jan 2018 – Present  
**University of Illinois at Chicago – Engineering Makerspace**

- Assist students in designing and manufacturing projects.
- Operate machinery such as 3D Printers, Laser Cutters, and Mills.

**Quality Engineering Intern** May 2018 – Aug 2018  
**Slalom Consulting**

- Developed a testing strategy in conjunction with 6 developers.
- Managed Quality Engineering for a team of 10 people in an agile development environment.
- Conducted automated testing across multiple AWS services.

### PERSONAL PROJECTS

**Voice Controlled Smart Room**

- Created a system which allowed a thermostat and lights to be controlled over the internet.
- Leveraged Google Cloud, PHP, Arduino, and a Google Home.

**Telegram Group Chat Bot**

- Allowed members of a group to fetch weather, forecasts, and group specific information.
- Leveraged Google Cloud, PHP, SQL, NodeJS, Telegraf, Telegram, and the Dark Sky API.

### LEADERSHIP EXPERIENCE

**President – Residence Hall Association** May 2017 – May 2019

- Gained experience leading a team of student leaders.
- Oversaw a budget of \$59,225.00.
- Organized weekly meetings.
- Gained experience organizing events and presenting to crowds.
- Learned how to troubleshoot problems in group dynamics and event planning.