

# DAN VOLCHEK

volchek2@illinois.edu

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## EDUCATION

- UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN** Expected May 2019
- Master of Computer Science
- UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN** Expected May 2019
- Bachelor of Science in Computer Science
  - Major GPA: **3.93**/4.00 | Cumulative GPA: **3.83**/4.00

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## EXPERIENCE

**AMAZON** Seattle, WA  
*Software Development Engineer Intern – AWS IoT 1-Click Team* May 2018 – Aug 2018

**TRADING TECHNOLOGIES** Chicago, IL  
*Software Engineering Intern* June 2017 – Aug 2017

- Contributed to massively multithreaded C++ application critical to the firm's core product line
- Added numerous features and enhancements to backend routing application from requirements
- Increased application efficiency and error handling by optimizing and enhancing existing code
- Worked with developers across different teams to identify and resolve potential problem areas

**DEPARTMENT OF COMPUTER SCIENCE** | University of Illinois Champaign, IL  
*Undergraduate Teaching Assistant – CS461: Intro to Computer Security* Jan 2018 – Present

- Held office hours daily for multiple 2 week long assignments and explained concepts students misunderstood
- Answered questions on student question forum
- Assisted in designing midterm and final exam questions, ensuring question rigor and fairness

**DEPARTMENT OF COMPUTER SCIENCE** | University of Illinois Champaign, IL  
*Course Contributor – CS241: Systems Programming* Sept 2016 – May 2017

- Selected for academic excellence in CS241: Systems Programming to help improve course
- Created framework for automatic testing and grading of user submitted coding assignments

**UCHICAGO MIDWEST ALGORITHMIC TRADING COMPETITION** Champaign, IL  
*Lead Software Developer – University of Illinois Team* Sept 2016 – May 2017

- Implemented automated trading strategy and quantitative models for national trading competition
- Led development of algorithms for market making options-on-futures and interest rate pairs trading

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## PROJECTS | [GITHUB.COM/DANVOLCHEK](https://github.com/danvolchek)

### VIDEO GAME MODIFICATION DEVELOPMENT

- Achieved 100,000+ total downloads of mods created for popular farming simulator game “Stardew Valley”

### CHROME DEVELOPMENT

- Wrote extensions to securely store and manage passwords and automate text input and clicks on pages

### ANDROID DEVELOPMENT

- Created campus assistant application to find and view routes between classes
- Developed application to browse SVN repositories of classes in order to easily check grades

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## LANGUAGES

*Proficient:* C#, C++, Java, Python • *Knowledgeable:* HTML, CSS, Javascript