

Timothy Hanson

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Education

University of Illinois at Urbana-Champaign | Class of 2018 3.55/4.00 GPA

- B.S. Computational Physics | James Scholar | Minors in Computer Science and Mathematics
- *Computer Science Coursework:* Data Structures, System Programming, Numerical Analysis, Applied Machine Learning, Computer Security I
- *Physics Coursework:* Classical Mechanics I & II, Electromagnetic Fields I & II, Special Relativity, Quantum Mechanics

Work Experience

Appfolio Inc. May - Aug 2017
Software Engineering Intern Goleta, CA

- Implemented key tracking, highest requested feature on Appfolio Product Suggestion Board serving over 10,000 property managers on Rails server with over 30,000 daily users
- Improved stability and native image uploads to growing mobile *React-native* app with over 9,000 daily active users
- Introduced OS-level unlock wrapper for public key cryptographic login to better manage user devices and improve security

Tyto Agricultural Inc. May - Aug 2016
Software Engineering Intern Champaign, IL

- Native android development, implemented backend server and redesigned application UI
- Worked with team of interns to improve and resolve issues of distributed device communication, overloaded backend, and reliability of real-time GPS tracking service
- Pioneered redesign of application backend on Google's Firebase, restructured device information as JSON objects

College of Materials Science at UIUC May - Aug 2016
Programming and Research Assistant Champaign, IL

- Member of PrairieLearn development team, worked on computerized testing server utilized across engineering college of over 7,000 students
- Developed client-side Javascript and HTML currently in use
- Restructured L^AT_EX course files into HTML style testing questions with radio and text input fields, reformatted over 150 files and 400 test questions

Leadership Experience

Engineering Teaching Assistant Aug - present 2017
Department of Physics Champaign, IL

- Lectured and mentored class of 25 freshmen in the College of Engineering
- Taught concepts of career goals, time management, professional behavior, and writing

Illini Formula Motorsports Club Aug 2015 - Aug 2016
Engine Team Champaign, IL

- Collaborated with engineers of various disciplines to design operational formula racing car
- Finished 3rd place at *FSAE Lincoln 2015* national competition

Achievements, Skills, & Interests

- **Proficient Languages:** Java, Ruby, Python, Javascript (ECMAScript 6)
- Other Languages: C++, C, BASH, R
- **Proficient Development Platforms:** React Native, Ruby on Rails, Android Studio
- 2300 SAT Score, 1st place finisher at *2012* Maryland State Impressionist Piano Competition
- **Interests & Hobbies:** Golf, swimming, tennis, classical music, health & nutrition