Timothy Hanson

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1838 W Leah Lane | Gilbert, AZ | 85233

Education

University of Illinois at Urbana-Champaign | Class of 2018   3.55/4.00 GPA, 3.79/4.00 CS 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

KAB Laboratories   June 2018 - Present
Software Engineer I   *San Diego, CA*

- Stallion Team Member
  - Member of *Stallion team*, military event simulation software, running on *Jboss EAP* on RedHat virtual machine
  - Helped redesign front-end from end-of-life Adobe Flash to new HTML5 & Angular 6 design
- DCGSN Onsite Developer
  - Onsite development on SPAWAY navy base, integrating Stallion software with Navy Distributed Common Ground System

Appfolio Inc.   May - Aug 2017
Software Engineering Intern   *Santa Barbara, CA*

- Worked on property 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
- Helped introduce 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

Personal Experience

Personal Home Server   Ongoing since Jan. 2018
Ubuntu Server 18.10

- Built linux home server from old windows computer, globally accessible through port forwarding on home router and **hansonserver.ddns.net** domain hosted by *NoIP.com*
- All custom *express.js* controllers written for uploading, viewing, and editing files, uploading ebooks to amazon, and managing personal music library
- Full software stack used: *Node.js*, *express*, *EJS*(embedded javascript) files for html preprocessing, HTTPS with simple auth.

Achievements, Skills, & Interests

- **Proficient Languages:** Java, Ruby, Python, Javascript (es6), HTML, Node.js
- **Proficient Development Platforms:** Angular 6, React Native, Rails 5, Jboss EAP
- U.S. Secret Security Clearance, CompTIA Security+ Certification
- 1st place finisher at *2012* Maryland State Impressionist Piano Competition
- **Interests & Hobbies:** Piano, classical music, golf, swimming, tennis, health & nutrition