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Shannon Hood

hoodsr.github.io
github.com/hoodsr

Education

08/2016 – Present   **University of South Carolina,** Columbia, SC
MS in Computer Science & Engineering, Focus in Robotics, 4.0 GPA

08/2012 – 05/2016   **University of South Carolina Honors College,** Columbia, SC
BS in Computer Science, Minors in Math & German, Magna Cum Laude, 3.9 GPA

Professional Experience

06/2016 – Present   **Autonomous Field Robotics Lab,** Columbia, SC
Research Assistant
- Programmed a drone to track and follow a ground robot while mapping the surrounding environment with a SLAM algorithm as part of my thesis
- Conference publication and open source release of the files pending

08/2016 – Present
01/2014 – 05/2014   **University of South Carolina College of Engineering & Computing,** Columbia, SC
Graduate TA and Supplemental Instructor
- Taught students the basics of algorithms and Java programming
- Ran weekly lab sessions and graded students' assignments

05/2015 – 08/2015   **The Boeing Company,** Everett, WA
Software Developer Intern in Loadable Software
- Developed a web-based application with a local server to load software parts onto airplanes and sync with the Librarian, a database of usable parts
- Implemented Java database methods and a Backbone.js & HTML/CSS UI

Projects

Spring 2016   **MyOffCampus Student Housing App**
- Created an Ionic and Parse app for students to publish and read reviews of off-campus housing and landlords with the College of Business
- As team lead, managed students and communication with business partners

Spring 2016   **Basic C Compiler**
- Designed a compiler using flex, bison, and C capable of processing global variable declarations, functions, and control & expression statements

Skills

Languages: Java, C++, C, JavaScript, HTML/CSS, MATLAB, German
Software/Tools: Git, ROS, Adobe Photoshop, Linux, Windows

Activities & Honors

- Phi Beta Kappa member
- 4th degree black belt in Tae Kwon Do
- Studied abroad in Japan and Germany
- Concerned Citizens for Animals & Animal Rescue of New Orleans volunteer