Dallin Williams

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EXPERIENCE

Leidos Health   Charlotte, NC

Junior Software Engineer   July 2019 – Present

- As part of an agile scrum team, develop across the stack on a healthcare web application.
- Using React.js, create reusable, tested frontend components based on UX requirements.
- Using Java, develop robust backend microservices to handle data flow both within the application and across the broader platform ecosystem.

University of South Carolina   Columbia, SC

Teaching Assistant, Embedded Systems   Jan 2019 – May 2019

- Communicated core concepts to students in a lab setting, on subjects including C programming, algorithms, parallel processing, Linux, FPGAs, and VHDL.

Harsco Rail   West Columbia, SC

Embedded Software Development Intern   May 2018 – Oct 2018

- Developed software for embedded devices in C and C++, from low-level hardware interfacing, interrupts, and RTOS to higher level design applying OOP principles.

EDUCATION

University of South Carolina   Columbia, SC

B.S.E. Computer Engineering   May 2019

GPA: 3.6. Graduated from the Honors College. Dean's List, all semesters.

SKILLS

Languages: C++, C, JavaScript, Java, HTML, CSS

Technologies: git, Linux, React.js, CMake, platformio, Google Test, Mongo, Jira

PROJECTS

Poly: A MIDI controllable 8-voice digital polysynth, with a hardware interface to control effects parameters including ADSR envelope, bitcrusher, filters, LFO, vibrato, pitchbend, and more.

Digital Breadboard: An cross-platform mobile app that allows users to easily create their own Bluetooth-enabled user interfaces for embedded IoT applications.

PT-501: A train safety product I helped develop as an intern that uses LiDAR sensors to gather information about oncoming vehicles, filters noise, parses for speed, and then alerts a dispersed network over RF in cases of danger.