

Harrison Christian Hall

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EDUCATION

Clemson University
Bachelor of Science in Computer Science
Bachelor of Science in Physics
GPA: 3.66/4.00

Clemson, SC
Spring 2021

- Organizations include the Clemson Association for Computing Machinery (2017-current), Coastal Carolina University Phi Eta Sigma (20 April 2016), Clemson University Rocket Engineering (2017-current)
- Relevant Computer Science coursework: Algorithms and Data Structures, Advanced Algorithms, Artificial Intelligence, Computer Organization, Computer Science Capstone, Computer Security Principles, Machine Learning, Network Programming, Operating Systems, Software Development Foundations, Software Engineering, Team Programming
- Relevant Physics coursework: Computational Physics, Electromagnetics, Experimental Physics I & II, Mechanics I & II, Theoretical Methods of Physics I & II, Thermodynamics & Statistical Mechanics, Quantum Physics

WORK

- Software development intern at Raytheon CODEX Summer 2020
- Team developed aviation software for anomaly detection and classification
 - Developed binary data parser, fuzzing tool, and test harness
 - Experience with ARINC-429, CANBUS, and MIL-STD-1553B protocols with C++, NodeJS, and Python
- Energy data analyst and scripter at Clemson Energy Visualization and Analytics Center 2019-2020
- Developed data aggregation system to automate transfer
 - Developed and monitored alert system to identify, group, and email anomalies
 - Analyzed and developed system to predict occupancy from Wireless Access Points

LEADERSHIP EXPERIENCE

- Avionics subteam-lead in Clemson University Rocket Engineering
- Top-down redesign of CURE SRAD avionics bay using Python and the Raspberry Pi
 - Developed drag simulation for predicting rocket flight
 - Certified for machining in Clemson's Cook Mechanical Engineering Lab

COMPETITIONS

- CUhackit 2018, 2019, 2020
- Clemson Amazon Web Services Cloud-a-thon 2018
- Google Tech Challenge 2018, 2019
- HackDuke (winner of best domain name) 2019
- HackGT 2020
- Spaceport America Intercollegiate Rocket Engineering Competition (IREC) 2018, 2019

TECHNICAL SKILLS

Arduino	Azure	C/C++	Flask	Javascript
MatLab	Python	SAS Studio/VA	SQL	