

Shawn Polson

ShawnPolson.com

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EXPERIENCE	Software Engineer, Laboratory for Atmospheric and Space Physics <i>Oct. 2015 – Present</i> <ul style="list-style-type: none">❖ Serve at the interface between software and the science of NASA spacecraft and instrument missions, focusing on the development of data systems that generate, display, and perform quality control corrections on scientific data.❖ Agile software development on a forward-thinking web team using the latest technologies.❖ Self-directed and team goal-driven planning and handling of Jira tickets.<ul style="list-style-type: none">▪ Find and fix bugs, envision features, realize user requested functionalities.
	Noteworthy Programming Projects
	<ul style="list-style-type: none">❖ Mars Rover Routing System <i>Sept. 2017 – Present</i><ul style="list-style-type: none">▪ Senior Capstone software design project under NASA JPL▪ Program a mock future rover to autonomously maneuver the Martian surface❖ NASA AIST grant project – LASP Hylatis <i>Aug. 2017 – Present</i><ul style="list-style-type: none">▪ Provide back-end support for the hyperspectral image-based research❖ Development of the LaTiS “Functional Data Model” <i>Jan. 2016 – Present</i><ul style="list-style-type: none">▪ A first-of-its-kind database model based on functional algebra❖ MIPS Processor Emulation <i>February 2015</i><ul style="list-style-type: none">▪ Binary input/output replication of a 32-bit MIPS processor
TECHNICAL SKILLS	Programming Languages: Scala, Java, Python, C/C++, XML, HTML, CSS, Bash, SQL <ul style="list-style-type: none">▪ Functional & Object-Oriented back-end programming▪ Algorithm time complexity analysis and performance optimization▪ Tool configuration and integration with existing systems▪ Basic front-end web design Development Tools: Jira, Jenkins, Hudson, Splunk, Artifactory, Ansible, Docker, Git, sbt Communication: Organizational leadership, technical documentation, working proficiency in Spanish
EDUCATION	UNIVERSITY OF COLORADO BOULDER Masters of Science, Computer Science <i>Expected May 2020</i> BS Computer Science <i>Expected May 2018</i> GPA: 3.76
	OKLAHOMA STATE UNIVERSITY <i>Aug. 2013 – May 2015</i> Computer Science
	TULSA TECHNOLOGY CENTER <i>Aug. 2011 – May 2013</i> <ul style="list-style-type: none">▪ Cyber Security/Forensics▪ Broadcast/Sound Engineering
LEADERSHIP	President , Secular Students and Skeptics Society at CU <i>Aug. 2016 – Present</i> <ul style="list-style-type: none">▪ Orchestrate events, marketing, and press media; give talks; develop ideas Vice President , Oklahoma State Secular Organization <i>Aug. 2014 – June 2015</i> <ul style="list-style-type: none">▪ Manage officer team, head meetings, organize events Certified Residential Leader , OSU Residential Leadership College <i>April 2014</i>
HONORS	OSU Honors College <i>May 2014</i> President’s Honor Roll <i>May 2014</i> Top of class in Cyber Security/Forensics at Tulsa Technology Center <i>May 2012</i> Microsoft Certification in computer networking <i>March 2012</i>