

# Zachary A. Smith

## Education

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<b>University of Texas</b>   Austin, TX Undergrad mathematics and graduate computer science courses	Aug. 2019 – May. 2020
<b>Open Source Society University</b>   Online Computer Science Courses	Aug. 2017 – Aug. 2019
<b>Michigan State University</b>   East Lansing, MI Bachelor of Arts, Accounting - GPA: 3.4/4.0	Aug. 2012 - June 2017

## Experience

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<b>Software Engineer</b> Twisted Fields   San Gregorio, CA	July 2020 - Present
<ul style="list-style-type: none"><li>– Implemented a solar-powered wifi network over 127 acres using hardware and software from the Ubiquity ecosystem</li><li>– Developed third party tools on top of Ubiquity's Unifi Network software to help debug networking issues</li><li>– Saved \$10000+ in broken machinery and labor costs through implementation of IoT</li><li>– Prototyped software and hardware development of a smart irrigation system with the stack Python, Flask, and Redis ran on Raspberry Pis and microcontrollers</li></ul>	

<b>Computer Science Intern</b> NASA   Hampton, VA	Jan 2019 - May 2019
<ul style="list-style-type: none"><li>– Identify non-compliant public-facing Langley websites, and facilitate their migration to log server traffic on Splunk</li><li>– Improved Splunk public-facing web server compliance by 12%</li></ul>	

<b>Database Manager and Web Designer</b> Blockmaster Electronics   Elk Grove, IL	April 2018 - July 2019
<ul style="list-style-type: none"><li>– Build and maintain a product database of over 20,000 unique part numbers, each with 30+ specs, with links to pictures and engineering drawings</li><li>– Create a consumer-focused company website and integrate the database so that it's filter-able and optimized for search</li></ul>	

<b>Tax Intern</b> BDO USA, LLP   San Francisco, CA	January 2017 - April 2017
<ul style="list-style-type: none"><li>– Worked on a team of 8 to complete the returns of a venture capital fund consisting of 50+ total entities while managing client expectations</li><li>– Modified company excel templates to improve efficiency, created new templates to manage hedge fund data, and led intern excel trainings to solve common first-year efficiency and data management problems</li></ul>	

## Leadership / Extracurricular Activities

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<b>Unmanned Aerial Vehicle Team (Computer Vision)</b> UT Austin   Austin, TX	Aug 2019 - May 2020
<ul style="list-style-type: none"><li>– Led a group of three students on the computer vision team. Our goal was to locate and identify alphanumeric symbols and their degree of rotation from birds-eye-view images. We apply various machine-learning tools (YOLO v3, TensorFlow Hub) to self-generated data</li><li>– Correctly identify 50% of data where there exists one symbol</li></ul>	

<b>Musician</b> Wiccit (band)   Austin, TX	Aug 2019 - May 2020
<ul style="list-style-type: none"><li>– Perform original music in the band Wiccit in venues around Austin</li></ul>	

<b>NASA Aerospace Scholar</b> NASA Stennis Space Center   Mississippi	June 2018
<ul style="list-style-type: none"><li>– Test engineer on a team of 10 students challenged to design an autonomous rover for a Mars retrieval simulation competition</li></ul>	

<b>Activities Facilitator, English Language</b> Villacarriedo Summer School   Spain	July 2015
<ul style="list-style-type: none"><li>– Led and mentored native Spanish-speaking students with conversational English Collaborated with school directors and counselors to create, plan, and organize indoor and outdoor activities for students</li></ul>	

<b>Howland Bicycle Club</b> Touring Cyclist   Midwest	May 2014 - June 2014
<ul style="list-style-type: none"><li>– Led a month-long, 1200 mile bike adventure tour from the campus of Michigan State University to Sioux Falls, SD</li></ul>	