

Zachary A. Smith

Education

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

Experience

Front-End Developer / Contractor CustomDFS Remote	March 2021 - Present
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- Rebuilding and simplifying the front-end for a sports fantasy simulator using plain Javascript

Software Engineer Twisted Fields San Gregorio, CA	July 2020 - Present
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- Designed and implemented software and hardware of a smart irrigation system with the stack Python, Flask, and Redis ran on Raspberry Pis and microcontrollers
- Designed and implemented a solar-powered wifi network over 127 acres with hardware and software from the Ubiquity ecosystem
- Developed third party tools on top of Ubiquity's Unifi Network software to help debug networking issues
- Saved \$10000+ in broken machinery and labor costs through implementation of custom IoT

Computer Science Intern NASA Hampton, VA	Jan 2019 - May 2019
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- Identify non-compliant public-facing Langley websites, and facilitate their migration to log server traffic on Splunk
- Improved Splunk public-facing web server compliance by 12%

Database Manager and Web Designer Blockmaster Electronics Elk Grove, IL	April 2018 - July 2019
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- Build and maintain a product database of over 20,000 unique part numbers, each with 30+ specs, with links to pictures and engineering drawings
- Create a consumer-focused company website and integrate the database so that it's filter-able and optimized for search

Tax Intern BDO USA, LLP San Francisco, CA	January 2017 - April 2017
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- Worked on a team of 8 to complete the returns of a venture capital fund consisting of 50+ total entities while managing client expectations
- 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

Leadership / Extracurricular Activities

Unmanned Aerial Vehicle Team (Computer Vision) UT Austin Austin, TX	Aug 2019 - May 2020
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- 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
- Correctly identify 50% of data where there exists one symbol

Musician Wiccit (band) Austin, TX	Aug 2019 - May 2020
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- Perform original music in the band Wiccit in venues around Austin

NASA Aerospace Scholar NASA Stennis Space Center Mississippi	June 2018
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- Test engineer on a team of 10 students challenged to design an autonomous rover for a Mars retrieval simulation competition

Programming Skills

Languages: Python, Javascript, Haskell, Bash

Technologies: Redis, Flask, Linux, Vim, embedded systems, Git