

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

Software Engineer Twisted Fields San Gregorio, CA <ul style="list-style-type: none">– 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	July 2020 - Present
Computer Science Intern NASA Hampton, VA <ul style="list-style-type: none">– 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%	Jan 2019 - May 2019
Database Manager and Web Designer Blockmaster Electronics Elk Grove, IL <ul style="list-style-type: none">– 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	April 2018 - July 2019
Tax Intern BDO USA, LLP San Francisco, CA <ul style="list-style-type: none">– 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	January 2017 - April 2017

Leadership / Extracurricular Activities

Unmanned Aerial Vehicle Team (Computer Vision) UT Austin Austin, TX <ul style="list-style-type: none">– 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	Aug 2019 - May 2020
Musician Wiccit (band) Austin, TX <ul style="list-style-type: none">– Perform original music in the band Wiccit in venues around Austin	Aug 2019 - May 2020
NASA Aerospace Scholar NASA Stennis Space Center Mississippi <ul style="list-style-type: none">– Test engineer on a team of 10 students challenged to design an autonomous rover for a Mars retrieval simulation competition	June 2018
Activities Facilitator, English Language Villacarriedo Summer School Spain <ul style="list-style-type: none">– 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	July 2015

Programming Skills

Languages: Python, Haskell, Bash

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