

Zach Smith

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Skills

Python | Haskell | Purescript | Javascript | Linux | Docker | Git | Ansible | MLOps | Jenkins CI/CD | Vagrant
| Azure | AWS | networking | microservices | virtualization | DevOps | backend | hardware | circuit design

Experience

Lead Software Engineer

Oct 2021 – Present

iMetalx | Sausalito, CA

Defense Tech

- Led software development of a novel communications technology to meet requirements for US Air Force, leading to a successful live demonstration for DoD stakeholders
- Product Manager on android development, our primary revenue source
- Designed and simulated proof-of-concept system to mitigate space debris for the US Space Force
- Portfolio of work led to winning research proposals with US Space Force for \$1.7MM and prime contractor revenue of \$380k

Software Engineer, Contractor

Aug 2022 – Nov 2022

T-Do, Inc. | Remote

- Wrote and open-sourced the Purescript virtual DOM library, [Snabbare](#), for a startup's MVP
- Currently used in a live private beta as part of the project at [T-Do.com](#)

Roboticist

May 2020 – Aug 2021

Twisted Fields | San Gregorio, CA

AgTech

- Developed software and hardware of a smart irrigation system in part of larger effort to create tooling for small farms
- Designed and implemented circuit to passively charge LFP electric vehicle from solar power
- Mechanic on a solar-powered farming robot built on a Raspberry Pi

Computer Science Intern

Jan – May 2019

NASA | Hampton, VA

- Robotics test engineer on a team of 10 students challenged to design an autonomous rover for a Mars retrieval simulation competition
- Analyzed 500+ internal and external NASA websites, and bringing up to meet security compliance

Projects

Unmanned Aerial Vehicle Team (Computer Vision)

Aug 2019 – May 2020

UT Austin | Austin, TX

- Led the MLOps group of three students on the computer vision team to build data pipeline and generation tools
- Increased model inference accuracy from 3% to 50% and integrated model into larger software system

Musician

Aug 2019 – May 2020

Wiccit (band) | Austin, TX

- Wrote and performed original music with the band Wiccit in venues around Austin

Education

University of Texas | Austin, TX

Aug 2019 – March 2020

Audited undergrad mathematics and graduate computer science courses

Michigan State University | East Lansing, MI

Sept 2012 – May 2017

BA, Eli Broad College of Business