Zach Smith

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Skills

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

Experience

Senior Software Engineer   Oct 2021 – Present
iMetalx | Sausalito, CA
Aerospace industry
- 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
- Currently designing and simulating a 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 a solar LFP passive charger for electric vehicles
- Mechanic on Acorn, the solar-powered, precision farming rover

Software Engineer Intern   Jan – May 2019
NASA | Hampton, VA

Full Stack Software Engineer   April 2018 - July 2019
Blockmaster Electronics | Elk Grove, IL

Venture Capital Tax Intern   Jan – May 2017
BDO, LLP | San Francisco, CA

Projects

Unmanned Aerial Vehicle Team (Computer Vision)   Aug 2019 – May 2020
UT Austin | Austin, TX
- Led MLOps team to increase model inference accuracy from 3% to 50% and integrate model into production

Musician   Aug 2019 – May 2020
Wiccit (band) | Austin, TX

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
Accounting