
Ian Miller

Senior Software Engineer at Anduril Industries

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EXPERIENCE

Anduril Industries - *Senior Software Engineer*

February 2024 - Present

- One of the founding engineers of Anduril Intelligence Systems (AIS), Anduril's first foray into the Intelligence Community
- End-to-end design and execution of GNSS device starting at electrical schematic and ending with device in users' hands
- Simulated EO cameras in software

Anduril Industries - *Full Stack Software Engineer*

January 2019 - February 2024

- Worked on mobile, databases, systems, embedded software
- Built and demoed mobile app to customers
- Built autonomous room-exploring UGV called "Groundhog" using COTS hardware components, V0 successfully explored rooms autonomously
- Currently work on cUAS radar systems: software integration, mode file (firmware) design, and analysis/tuning of forward-deployed products

US Army Reserve - *2nd Lieutenant*

June 2021 - Present

- Assistant S2 at 315th HHC Engineer BN in Miramar, CA
- In charge of updating Intelligence briefs and maintaining readiness of HHC soldiers deployability

Tradelt Inc, New York, New York - *Business Development*

June 2018 - August 2018

- Managed existing partnerships and explored new potential deals
- Summer capstone project focused on use case research for the application of AI to the Tradelt platform

SmartShot Technology Inc, Brooklyn, New York - Computer Vision Developer

January 2018 - February 2018

- Overall goal of project: build a tool to automatically trim tennis footage
- Utilized OpenCV and TensorFlow libraries (in Python) to build framework for footage editing tool

RESEARCH

DROIDvision

February 2019 - Present

- Embedded computer vision module that performs object detection and publishes objects of interest from the edge
- V0 Qualified for Soldier Design Competition finals at ISN at MIT, V1 in progress

Military Innovation Research Assistant UROP with MIT Innovation Initiative

September 2018 - December 2018

- Worked directly with Executive Director of MITii Gene Keselman to map out all current DoD ventures at MIT and in the Cambridge area
- Helped with interdepartmental collaboration in regard to ideas and resources

Integrating Computer Vision and AWS for Real-Time Enemy Identification

November 2016 - May 2017

- Tested the viability of autonomous weapons systems (AWS) utilizing computer vision software for use in the U.S. military
- Built working prototype, trained it to recognize combatants vs non-combatants

SKILLS

- Programming
 - Python, Golang, C++, C, Rust, React, Protobufs
- Engineering - RADAR systems, Ground vehicle motion controls, SLAM, embedded microprocessors, AutoCAD, LiDAR, Stereoscopic vision
- Data
 - Lots of experience doing eval and integration of sensors with Jupyter Notebooks, putting together reports/recommendations on trades involving different sensor payloads

EDUCATION

MIT, Cambridge, MA - B.S. in Electrical Engineering and Computer Science

August 2017 - June 2021

- **Army ROTC Cadet- Paul Revere Battalion**
- **Men's Heavyweight Varsity Crew**
- **Theta Chi Fraternity- Social Chair**