Zachary Taira

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EXPERIENCE

Software Engineer: Technical Infrastructure — Boston, MA
Saildrone — *Sept 2021 - present*
- Brought automated test station management to the manufacturing line, scaling the line from zero to dozens of programmatically reproducible testbeds
- Oversaw build system migration from legacy Bazel to modern Python, reducing incremental build times from 5+ minutes to 4s (98%)
- Set up, configured, and wrote prototype tests for Saildrone's low-volume, high-mix prototype/production manufacturing environments

Software Engineer: Systems Integration and Validation — Boston, MA
Starry — *June 2019 - Sept 2021*
- Automated testing of Starry radio hardware and customer-premises equipment using Python
- Wrote Ansible modules and playbooks to facilitate management of SIV testing network and Starry manufacturing line
- Managed code deployments and hardware provisioning for 250+ hosts among dozens of testbeds

Software Engineer Co-op — Boston, MA
IBM Resilient — *Jan - July 2017*
- Wrote and tested a test harness to verify IBM Resilient's command-line output
- Storyboarded, wrote, and tested a prototype Chrome extension for easily uploading Indicators of Compromise to the IBM Resilient Incident Response Platform
- Migrated production front-end code from CoffeeScript to TypeScript

Undergraduate Research Assistant — Boston, MA
SMILE Labs, Northeastern University — *Jan 2015 - Jan 2016*
- Helped build the largest public kinship image dataset to date (Families in the Wild), consisting of over 13,000 family photos and 1,000 unique family trees
- Delegated tasks to fellow students to ensure image collection standards and deadlines were met

Orientation Leader — Boston, MA
Northeastern University — *May - Sept 2015*
- Led icebreakers and teambuilding activities for incoming students and university guests
- Facilitated informative and encouraging conversations about college transition issues
- Managed setup, preparation, and teardown-related duties to ensure orientation logistics ran smoothly

SOFTWARE SKILLS

Languages: Python, bash, Rust, HTML/CSS/JS
Technologies: Ansible, make, poetry, tox, Linux, pipenv, virtualenv, CircleCI, Bazel

EDUCATION

Northeastern University — Boston, MA
BS/MS in Electrical and Computer Engineering — *May 2019*
Honors: Eta Kappa Nu, Dean's List — *GPA: 3.689*

RECREATIONAL ACTIVITIES

Interpersonal: Brazilian jiu-jitsu/judo/wrestling, hiking, large-scale cooking
Solo: Modifying vim configs, talking with LLMs, ranting about Python packaging