

Philip [REDACTED]

UTC-8

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[https://github.com/\[REDACTED\]](https://github.com/[REDACTED])

I'm an experienced Software Engineer / Data Scientist with passion for interdisciplinary work in environmental, scientific, social good, OSInt & citizen science projects.

### Skills/Experience

Machine Learning	Prototypes	Remote Work	Ticketing Systems
Data Science	Linux Systems	Education/Mentoring	Rubber Ducking

### Technologies

Python/PyTorch/sklearn	R/dplyr	skimage/scipy.signal	[REDACTED]/Dwarf/[REDACTED]
C/C++	Angular/NativeScript	Docker	AWS/GCP/firebase

#### - Scientific Programmer

May 2022 - present

Remote sensing research, [REDACTED] tracking from [REDACTED] & [REDACTED] images & [REDACTED] data  
Developed [REDACTED] to catalog millions of [REDACTED] images for global surveys, across providers  
Led technology transfer work, moving research prototypes to production & automated pipelines  
Managed small interdepartmental & international teams to accomplish interdisciplinary work

#### - Machine Learning Researcher II

March 2020 - April 2022

Performed DL/ML research for binary vulnerability detection & decompilation legibility tasks  
Developed big data feature extraction pipeline, distributed over cloud hosted virtual machines  
Implemented & incorporated code from academic research publications into release products  
Participated in authoring & reviewing [REDACTED]/[REDACTED] proposals for [REDACTED]/[REDACTED] funding solicitations

#### - Mobile & Full Stack Engineer

March 2019 - March 2020

Developed [REDACTED], x-platform citizen sciencery app to promote [REDACTED] & research  
Developed core tools for tracking [REDACTED] sightings & individual [REDACTED] identification  
Contributed to data access API & web UI, supporting researchers in [REDACTED] studies

#### - Graduate Data Science Intern

June 2018 - Sept 2018

Prototyped employee expert recommender system, to eliminate weeks in ticket triage/assignment  
Designed & completed prototype from research papers & advisement of top [REDACTED] employees

#### - Research Assistant

Oct 2017 - June 2018

Analyzed relationship of adjacent [REDACTED] populations for [REDACTED] & [REDACTED] health  
Developed data processing/audit tools for survey data & [REDACTED] data, supporting [REDACTED] studies  
Provided git, project management & security trainings for teams with varying readiness levels

#### Graduate Research [REDACTED] - Machine Learning (Audio Data)

Sept 2017 - Dec 2019

Developed VAEs & anomaly detectors [REDACTED] from signal processing research papers  
Developed [REDACTED] track explorer, enabling research on 10 year (12 TB) continuous audio track  
Measured effects of [REDACTED] & [REDACTED] noise reduction models to improve sound quality

#### - Volunteer Developer & Consultant

Nov 2015 - present

Developed remote sensing tools to classify [REDACTED] light sources for [REDACTED] study  
Image processing consult on low cost blood tests for [REDACTED]  
Provided technology trainings/consultation on code optimization, medical NLP & image processing

#### - R&D Software Engineer

April 2014 - Dec 2015

Developed processing pipelines & workflows to enable [REDACTED] work for [REDACTED] programs  
Helped run professional trainings to disseminate new [REDACTED] programming languages  
Wrote on disenfranchisement under [REDACTED] for [REDACTED] feasibility study

#### University

Computer Science & Machine Learning  
Masters of Science

#### University

Computer Science & Cryptography  
Bachelor of Science, Math Minor