

Philip [REDACTED]

UTC-8

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(+1) [REDACTED].[REDACTED].[REDACTED]

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

I'm an experienced Software Engineer / Data Scientist with passion for interdisciplinary work in environmental, 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] identification & tracking from [REDACTED] images & [REDACTED] data
Developed [REDACTED] to organize [REDACTED] images from multiple providers for global surveys
Led technology transfer work, moving academic prototypes to production & automated pipelines
Developed collaboration strategies & best practices for remote & international teams

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

- 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 [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 spectral subtraction & deep noise reduction techniques on ML models

- Volunteer Developer & Consultant

Nov 2015 - present

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