

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, environmental, scientific, privacy, 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, tracking [REDACTED] from [REDACTED]/[REDACTED] satellite images & [REDACTED] data
Developed [REDACTED] to join & catalog millions of satellite scenes, serving global ocean surveys
Led technology transfer work, moving research prototypes to production & automated pipelines
Authored blog & documentation on data from research work, promoting private sector data sharing

- Machine Learning Researcher II

March 2020 - April 2022

Research in vulnerability detection & improving legability of code decompilation on binaries
Developed feature extraction pipeline over cloud hosted virtual machines on TBs of data
Implemented & incorporated ML/DL 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

- Data Science Intern (NLP)

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

- Graduate Research Assistant

Oct 2017 - June 2018

Analyzed relationship of adjacent [REDACTED] populations for [REDACTED] & [REDACTED] health
Developed processing/audit tools for survey & [REDACTED] data to support [REDACTED] study for [REDACTED]
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 for applied [REDACTED] acoustics in very noisy environments
Developed a track explorer to enable research on 10 year (12 TB) continuous audio from [REDACTED]
Measured effects of spectral subtraction & DL models to reduce noise & improve audio quality

- Volunteer Developer & Consultant

Nov 2015 - present

Developed remote sensing tools to classify light technologies in photos for [REDACTED]
Consult on image processing for low cost diagnosis of [REDACTED]
Provided technology training/consult on code optimization, medical NLP & image processing

- R&D Software Engineer

April 2014 - Dec 2015

Developed processing pipelines & workflows for [REDACTED] work on multiple [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