

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, & 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

[REDACTED] - Scientific Programmer

May 2022 - present

Research developer on large scale studies for detection of unreported/illegal boating activity
Developed [REDACTED], to organize satellite data from public providers for global ocean surveys
Developed inter-departmental collaboration strategies & code best practices for [REDACTED] teams

[REDACTED] - Machine Learning Researcher

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] solicitations

[REDACTED] - Mobile / Full Stack Engineer

March 2019 - March 2020

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

[REDACTED] - Graduate Data Science Intern

June 2018 - Sept 2018

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

[REDACTED] - Graduate Research Assistant

Oct 2017 - June 2018

Analyzed relationship of adjacent microbiome populations for menopause & reproductive health
Developed data processing/audit tools for survey & fMRI data, supporting ADHD/ASD 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 and anomaly detectors for marine acoustics from signal processing research
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
Led & enabled a four week community data deep dive, through [REDACTED], on marine acoustics

[REDACTED] - Volunteer Developer & Consultant

Nov 2015 - present

Developed remote sensing tools to classify citiscape light sources for light pollution study
Image processing consult on low cost blood tests for infant hypoxic ischemic encephalopathy
Provided technology trainings/consultation on code optimization, NLP, & image processing

[REDACTED] - 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 probabilistic programming languages
Wrote on disenfranchisement under [REDACTED] for [REDACTED] feasibility study

[REDACTED] University

Computer Science & Machine Learning
Masters of Science

[REDACTED] University

Computer Science & Cryptography
Bachelor of Science, Math Minor