Philip ██████████   ██████████   ██████+res@protonmail.com
                              UTC−8   (+1) ███.███.████
https://github.com/██████

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	██████/Dwarf/█████████
C/C++	Angular/NativeScript	Docker	AWS/GCP/firebase

████████████████ – Scientific Programmer   May 2022 – present
Research developer on large scale studies for detection of unreported/illegal boating activity
Developed ██████, to organize satellite data from public providers for global ocean surveys
Developed inter-departmental collaboration strategies & code best practices for ██ teams

████████████ – 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 ████/████ proposals for ████/█████ solicitations

██████████ – Mobile / Full Stack Engineer   March 2019 – March 2020
Developed █████████████, a x-platform citizen sciencery app to support ecology research
Developed core tools for tracking ██████████ sightings & individual █████ identification
Contributed to data access API, supporting researchers in population ecology projects

████████████████████ – 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 ████████ employees

███████████████ – 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 ████████ – Machine Learning (Audio Data)   Sept 2017 – Dec 2019
Developed VAEs and anomaly detectors for marine acoustics from signal processing research
Developed █████ 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 ████, on marine acoustics

██████████ – 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

██████████ – R&D Software Engineer   April 2014 – Dec 2015
Developed processing pipelines & workflows to enable █████████ work for █████ programs
Helped run professional trainings to disseminate new probabilistic programming languages
Wrote on disenfranchisement under ██████████ for █████████████████ feasibility study

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████████████████ University   ████████████████ University
Computer Science & Machine Learning   Computer Science & Cryptography
Masters of Science   Bachelor of Science, Math Minor