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

████████████████ – Scientific Programmer   May 2022 – present
Remote sensing research, tracking ████ from ██/██████ satellite images & ██████ data
Developed ██████, to catalog millions of satellite images across providers for global surveys
Led technology transfer work, moving research prototypes to production & automated pipelines
Managed small interdepartmental/international projects 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 ███/███ proposals for ██/████ funding solicitations

██████████ – Mobile & Full Stack Engineer   March 2019 – March 2020
Developed ██████████████, x-platform citizen sciencery app to promote ██████████ & research
Developed core tools for tracking ██████████ sightings & individual █████ identification
Contributed to data access API & web UI, supporting researchers in ██████████████ 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 ████████ employees

████████████████ – Graduate Research Assistant   Oct 2017 – June 2018
Analyzed relationship of adjacent ██████████ populations for ██████████ & ██████████████ health
Developed data processing/audit tools for survey data & ████ data, supporting ████████ 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 & anomaly detectors for applied ██████ acoustics in very noisy environments
Developed █████ track explorer, enabling research on 10 year (12 TB) continuous audio track
Measured effects of ████████████████████ & █ noise reduction models to improve sound quality

██████████████ – Volunteer Developer & Consultant   Nov 2015 – present
Developed remote sensing tools to classify light chemistries in photos for ██████ studies
Consult on image processing for low cost diagnostics of ██████████████████████████████████████
Provided technology training/consult on code optimization, medical 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 ██████████ 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