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**
ML & Research detection of ███████████████████████████ from satellite & ███████ data
Developed █████ to organize satellite images from multiple providers for global surveys
Lead technology transfer, 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 ███/███ proposals for ██/███ funding solicitations

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

████████████████   **– Research Assistant**   **Oct 2017 – June 2018**
Analyzed relationship of adjacent ████████ populations for █████████ & ████████████ health
Developed data processing/audit tools for survey & ████ 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 and anomaly detectors for ████████████ 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

████████████   **– Volunteer Developer & Consultant**   **Nov 2015 – present**
Developed remote sensing tools to classify ████████ light sources for █████████████ study
Image processing consult for low resource ████ tests of █████████████████████████████████████
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 ████████████ programming languages
Wrote on disenfranchisement under █████████ for █████████████████ feasibility study

---

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