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, citizen science, & security projects.

Skills/Experience

ML/Data Sciences	Linux Systems	Education/Mentoring	Ticketing Systems
Prototypes	Remote Work	Communication	Rubber Ducking

Technologies

Python/PyTorch/sklearn	R/dplyr	skimage/scipy.signal	████/Dwarf/████████
C/C++	Angular/NativeScript	Docker	AWS/GCP/firebase

████████ **– R&T Machine Learning Engineer II March 2020 – present**
Conducted language processing research to increase legibility in binary decompilation tasks
Performed deep learning research & ML work on compiled binaries for vulnerability detection
Developed data pipeline to distribute feature extraction over networked virtual machines
Implemented & incorporated code from academic research articles into release products
Participated in authoring & reviewing ███/███ proposals for ███/███ solicitations

████████ **– Mobile / Full Stack Engineer   March 2019 – March 2020**
Developed █████████████ App, a x-platform phone app supporting citizen science projects
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
Defended unconventional application of latent dirichlet allocation (a topic mixture model)
Open source contribution, fixing bugs in the █████ natural language processing library

████████████████ **– 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 tech readiness

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 classifying citiscape light sources for light pollution study
Image processing consult on low cost blood tests for infant hypoxic ischemic encephalopathy
Developed natural language processing (NLP) tools to explore Multiple Myeloma clinical trials
Provided technology trainings/consultation on code optimization, NLP, & image processing

████████ **– R&D Software Engineer   April 2014 – Dec 2015**
Developed processing pipelines & workflows to enable evaluator work for █████ programs
Helped run professional trainings to disseminate new probabilistic programming languages
Wrote on disenfranchisement under ██████████ for ██████████████████ feasibility study
Produced biannual quantitative & qualitative reports for █████ & participating ████ teams

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████████████████ University	**██████████████████ University**
Computer Science & Machine Learning	**Computer Science & Cryptography**
Masters of Science	Bachelor of Science, Math Minor
2016 – 2019	2007 – 2012