

Philip [REDACTED]

UTC-7

[REDACTED]@protonmail.com

[https://github.com/\[REDACTED\]](https://github.com/[REDACTED])

Skills/Experience :

Research MVPs

Linux Systems

Education/Mentoring

Ticketing Systems

ML/Data Sciences

Remote Work

Communication

Rubber Ducking

[REDACTED] - R&T Machine Learning Engineer March 2020 - present

Individual contributor on machine learning & security research team, in remote environment

Technologies : Python, PyTorch, C, ...

[REDACTED] - Staff Software Engineer March 2019 - March 2020

Contributed as full stack developer on a small team, in both remote and onsite environments

Developed [REDACTED] App, a cross platform phone app supporting citizen-science projects

Maintained and contributed to user tools for individual [REDACTED] identification and tracking

Technologies : Native/TypeScript, Angular, Android, iOS, PostgreSQL, Java, Spring, firebase

Graduate Research [REDACTED] - Marine Acoustics Engineering Sept 2017 - Dec 2019

Designed, developed, and managed research work in a remote environment without oversight

Developed [REDACTED] track explorer library, to ease acoustic research on 10 year audio track

Used principled audio processing and noise-suppression, focused on marine bioacoustics

Implemented analysis tools, denoising, and deep learning models from research papers

Led and enabled a four week community data deep dive series through [REDACTED] (local meetup group)

Technologies : [REDACTED], Keras, tensorflow, PyTorch, scipy.signal, Jupyter, flask, Angular

[REDACTED] - Graduate Data Science Intern June 2018 - Sept 2018

Developed employee Expertise Recommender System, automating expensive mission-critical tasks

Completed deployable prototype from research papers and meetings with top [REDACTED] employees

Implemented stable/principled text normalization, tokenization, and model evaluation

Technologies : Python, nltk, gensim, pyLDavis, pandas, Jupyter, Author-Topic-Model, LDA

[REDACTED] - Research Assistant Oct 2017 - June 2018

Contributed to microbiome population analytics tools studying menopause & reproductive health

Developed processing pipeline and audit tools for reported & fMRI data, on ADHD/ASD studies

Authored project guidelines, git trainings, & acted as lab security/privacy representative

Technologies : Python, Bash, R, dplyr, neo4j, ponyorm, stan, GitLab, Docker

[REDACTED] (Part Time) - Remote Contractor/Consultant Nov 2015 - Aug 2018

Developed image processing tools for low cost spectral analysis, to study light pollution

Authored educational material in light pollution's effect on economy, biology, and technology

Developed natural language processing tools to organize and explore Myeloma clinical trials

Provided technology tutorials/consultation on code optimization, NLP, and image processing

Technologies : Python, skimage, sklearn, AWS, spark, CLiNER, Morphological Watersheds

[REDACTED] - R&D Software Engineer April 2014 - Dec 2015

Developed processing pipelines and workflows to enable evaluator work for [REDACTED] programs

Helped run professional trainings to disseminate new probabilistic programming languages

Produced biannual quantitative and qualitative reports on for [REDACTED] and other [REDACTED] teams

Technologies : Python, SLURM, Scala, [REDACTED], [REDACTED], Docker, Jira, Basecamp

[REDACTED] - Software Development Engineer Dec 2012 - July 2013

Designed and developed password manager to supporting self encrypting drives in FreeBSD

Team brought to schedule a lagging anchor release feature in 5 months, to 80% code coverage

Participated in threat modeling for multiple security sensitive applications

Technologies : C, C++, libCheck, Python, SQLite, Subversion, FreeBSD, OpenSSL

University

Computer Science & Machine Learning

Masters of Science

2016 - 2019

University

Computer Science & Cryptography

Bachelor of Science, Mathematics Minor

2007 - 2012