

Philip [REDACTED]

UTC-8

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(+1) [REDACTED].[REDACTED].[REDACTED]

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

Skills/Experience :

Research MVPs
ML/Data Sciences

Linux Systems
Remote Work

Education/Mentoring
Communication

Ticketing Systems
Rubber Ducking

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

Individual contributor on machine learning & security research team, in remote environment
Developed distributed feature extraction & ML training pipelines supporting [REDACTED] programs
Produced research, identifying libraries with security vulnerabilities in compiled binaries

Technologies : Python, Docker, celery, ansible, Kibana, GitLab, TargetProcess

[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 Bioacoustics 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
Implemented audio processing, cleaning, and deep anomaly detectors from research papers
Led and enabled a four week community data deep dive series through [REDACTED] (a local meetup)

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
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 (2019)

University

Computer Science & Cryptography
Bachelor of Science, Math Minor (2012)