Philip Robinson

UTC+2

Tiranë, Albania probinso+res@protonmail.com (+1) 206.377.9747

https://qithub.com/probinso

I'm a Scientific Programmer / Machine Learning Researcher driven by interdisciplinary work in natural sciences, security/privacy systems, OSInt &|| citizen sciencery.

Skills/Experience

Machine Learning Prototypes Remote Work MLOps/DevOps Data Sciences Linux Systems Rubber Ducking Education/Mentoring

Technologies

Python/PyTorch/sklearn R/dplyr GDAL/cartopy/ESA-SNAP AWS/GCP/firebase

C/C++ skimage/scipy.signal Gtirb/Dwarf/asts.AST Docker

Blue Oasis - Digital Twin Engineer (Ocean Science) June 2025 - present

Contributed to multi-label edge marine acoustics ML pipeline, to track vessels & marine life Worked with acoustics researchers to develop & implement custom features for event detection Full stack security & performance work on flagship customer facing analytics & IR dashboard

- Scientific Programmer (Satellites) May 2022 - March 2025 Global Fishing Watch

Implemented remote sensing pipeline for detecting vessels & matching to reported GPS locations Evaluated vessel detection over terrabytes of processed synthetic aperture radar (SAR) images Developed gfwsat to join & catalog millions of satellite scenes, serving global ocean surveys Developed custom offline satellite image lat/lon labeler supporting points, shapes & paths Led technology transfer work, moving research prototypes to production & automated pipelines

GrammaTech - Machine Learning Researcher II March 2020 - April 2022

Research on binaries in vulnerability detection & improving code legability from decompilation Developed feature extraction pipeline over hosted virtual machines on terrabytes of data Implemented, verified & incorporated ML/DL code from academic research into release products Participated in authoring & reviewing SBIR/STTR proposals for DOD/DARPA funding solicitations

HappyWhale - Mobile & Full Stack Engineer March 2019 - March 2020

Developed x-platform citizen science phone app for eco-tourism & wildlife population surveys Developed core tools for tracking marine life sightings & individual whale identification Contributed to data access API & web UI, supporting researchers in population ecology studies

NASA Jet Propulsion Lab - 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 NASA/JPL employees

- Graduate Research Assistant OHSU Neuroimaging Lab Oct 2017 - June 2018

Analyzed relationship of adjacent microbiome populations for menopause & reproductive health Developed processing/audit tools for survey & fMRI data to support ABCD study for ADHD/ASD Provided git, project management & security trainings for teams with varying readiness levels

Masters Research (OHSU) - Machine Learning (Marine Acoustics) Sept 2017 - Dec 2019

Developed track explorer for 10YR continuous audio track, supporting Aloha Cabled Observatory Developed anomaly detectors for noisy marine acoustics, based on variational auto-encoders Measured effects of spectral subtraction & DL models to reduce noise & improve audio quality

Galois Inc. - R&D Software Engineer April 2014 - Dec 2015

Developed processing pipelines & workflows for evaluator work on multiple DARPA SBIR programs Helped run professional trainings to disseminate new probabilistic programming languages Wrote on disenfranchisement under Free & Fair for secure internet voting feasibility study

Oregon Health Science University Computer Science & Machine Learning

Western Washington University Computer Science & Cryptography Bachelor of Science, Math Minor

Masters of Science