Philip Robinson

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https://github.com/probinso

Skills/Experience :

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

GrammaTech – 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 DARPA programs
Produced research, identifying libraries with security vulnerabilities in compiled binaries

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

HappyWhale – Staff Software Engineer March 2019 – March 2020

Contributed as full stack developer on a small team, in both remote and onsite environments
Developed Polar Collective App, a cross platform phone app supporting citizen-science projects
Maintained and contributed to user tools for individual whale identification and tracking

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

Graduate Research CSLU/ACO – Marine Bioacoustics Engineering Sept 2017 – Dec 2019

Designed, developed, and managed research work in a remote environment without oversight
Developed ACOio 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 PDSG (a local meetup)

Technologies : ACOio, Keras, tensorflow, PyTorch, scipy.signal, Jupyter, flask, Angular

NASA Jet Propulsion Lab – 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 NASA/JPL employees
Implemented stable/principled text normalization, tokenization, and model evaluation

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

OHSU DCAN Neuroimaging Lab – 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 AHDH/ASD studies
Authored project guidelines, git trainings, & acted as lab security/privacy representative

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

RGB Optics (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

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

Developed processing pipelines and workflows to enable evaluator work for DARPA programs
Helped run professional trainings to disseminate new probabilistic programming languages
Produced biannual quantitative and qualitative reports on for DARPA and other PPAML teams

Technologies : Python, SLURM, Scala, Figaro, Chimpy, Docker, Jira, Basecamp

Dell EMC^2 Isilon Storage – Software Development Engineer Dec 2012 – July 2013

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

Oregon Health Science University
Computer Science & Machine Learning
Masters of Science (2019)

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