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

Developed distributed feature extraction & ML training pipelines supporting DARPA programs
Produced ML security research on compiled binaries in decompilation & vulerability detection
Evaluated & completed technology transfer of university research work into release products

Technologies : Python, C, PyTorch, Docker, celery, Kibana, GitLab.ci, LevelDB, MongoDB

HappyWhale – Full Stack Developer March 2019 – March 2020

Developed Polar Collective App, a cross platform phone app supporting citizen-science work
Core developer for web user tools for whale sight logging, identification, & tracking

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

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 & meetings with top NASA/JPL employees
Implemented stable/principled text normalization, tokenization, & model evaluation

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

OHSU DCAN Neuroimaging Lab – Graduate Research Assistant Oct 2017 – June 2018

Contributed to microbiome population analytics, studying menopause & reproductive health
Developed processing pipeline & 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, phyloseq, neo4j, ponyorm, stan, GitLab, Docker

Graduate Research CSLU/ACO – Machine Learning (Audio Data) Sept 2017 – Dec 2019

Implemented & transferred deep anomaly detectors from research papers to marine bioacoustics
Measured effects of spectral subtraction & deep noise reduction techniques on ML models
Developed ACOio track explorer, enabling research on 10 year (12 TB) continuous audio track

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

RGB Optics (Part Time) – Contractor/Consultant Nov 2015 – present

Developed image processing tools for low cost spectral analysis, to study light pollution
Developed natural language processing tools to organize & explore Myeloma clinical trials
Provide technology tutorials/consultation on code optimization, NLP, & image processing

Technologies : Python, skimage, sklearn, AWS, CliNER, Morphological Watersheds, OpenCV

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

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