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	Merry-go-rounds

HappyWhale – Staff Software Engineer March 2019 – present

Contributed as full stack developer on a small team, in both remote and onsite environments
Developed Polar Collective App, a cross platform phone app for 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 Acoustics Engineering Sept 2017 – Dec 2019

Designed, developed, and managed research work in a remote environment without oversight
Researched novel techniques to study/index bioacoustic events from a 10 year audio track
Developed ACOio track explorer library, to help rejuvenate data access for researchers
Implemented analysis tools, denoising, and deep learning models from research papers

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

Thinkful (Part Time) – Data Science Technical Expert Jan 2019 – March 2019

Provided safe environment for training and instruction in a remote-first setting
Advised career transitioners in mastery of professional and data science topics

NASA Jet Propulsion Lab – Graduate Data Science Intern June 2018 – Sept 2018

Developed employee Expertise Recommender System, automating expensive mission-critical tasks
Fully specified programmatic solutions from use-case meetings with top NASA/JPL employees

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 to study female reproductive system
Developed processing pipeline and audit tools for reported and fMRI data, on AHDH/ASD studies
Acted as Git, OSS, and securities lead, developing trainings and enforcing best practices

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

RGB Optics (Part Time) – Remote Contractor/Consultant Nov 2015 – Aug 2018

Developed custom photo image processing tools and pipelines for low cost spectral analysis
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 and 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

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

Oregon Health Science University
Computer Science & Machine Learning
Masters of Science
2016 – 2019

Western Washington University
Computer Science & Cryptography
Bachelor of Science, Mathematics Minor
2007 – 2012