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**

    Technologies : Python, PyTorch, C, ...

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 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

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 & 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 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

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