## Philip Robinson

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## Personal Statement

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown...

## Skills/Experience

Research MVPs ML/Data Sciences

Linux Systems Remote Work

Education/Mentoring Communication

Ticketing Systems Rubber Ducking

GrammaTech

- R&T Machine Learning Engineer March 2020 - present Transferred NLP research to binaries in decompilation/reverse engineering applications Performed research & evaluated ML work on compiled binaries in vulnerability detection Developed feature extraction & ML training pipelines supporting DARPA programs Completed technology transfer of university research work to release products

Technologies: Python, C, PyTorch, RetDec, asts.AST, GTIRB, Docker, celery, GitLab.ci

HappyWhale

- Mobile / Full Stack Developer March 2019 - March 2020 Developed Polar Collective App, x-platform phone app supporting citizen science projects Core developer for web user tools in sighted whale logging, identification, & tracking

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

NASA Jet Propulsion Lab - Data Science Intern June 2018 - Sept 2018

Developed employee Expertise Recommender System, automating expensive critical tasks Designed & completed prototype from research papers & advisement of top NASA/JPL employees Presented & defended NLP/ML prototype to non-computational decision makers at JPL.

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 Provided git, Project management, & and security trainings for various rediness levels

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 anomaly detectors from research papers to marine bio-acoustics

Designed, developed, & managed research work in a remote environment without oversight Measured effects of spectral subtraction & deep noise reduction techniques on ML models Developed ACOio track explorer, enabling research on (10 yr/12 TB) continuous audio tracks

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 Authored training material: Effect of light pollution on economy, biology, & technology Statistics, image processing, and optimizations consultant on low cost medical blood tests 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

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

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

## Oregon Health Science University Computer Science & Machine Learning

Western Washington University Computer Science & Cryptography

Masters of Science

Bachelor of Science, Math Minor