

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	Linux Systems	Education/Mentoring	Ticketing Systems
ML/Data Sciences	Remote Work	Communication	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 whale sight 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 ADHD/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 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 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
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

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

Oregon Health Science University

Computer Science & Machine Learning
Masters of Science

Western Washington University

Computer Science & Cryptography
Bachelor of Science, Math Minor