# 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

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|---|---|---|---|
| Research MVPs | Linux Systems | Education/Mentoring | Ticketing Systems |
| ML/Data Sciences | Remote Work | Communication | Rubber Ducking |

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**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 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 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**

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**Oregon Health Science University**
**Computer Science & Machine Learning**
Masters of Science

**Western Washington University**
**Computer Science & Cryptography**
Bachelor of Science, Math Minor