Philip Robinson

Portland, OR 97214
UTC-7

probinso+res@protonmail.com
206.377.9747

https://github.com/probinso

Personal Statement

I love turning hard problems into impactful solutions and actionable or educational materials. I am an adaptable engineer, whose work history spans products, education, and research in machine learning, sciences, software engineering, and security.

Skills/Experience :

Python	C, C++	Merry-go-rounds	TDD
R, dplyr	LaTeX	Git	Ticketing Systems

Work Experience

Graduate Research OHSU/ACO – Deep Learning in Marine Acoustics (continuing)

- Designed, developed, and managed research work in a remote environment without oversight
- Researched deep learning models to study/index bioacoustic events from a 10 year audio track
- Developed an intuitive ACO track explorer, to help rejuvenate data access for researchers
- Implemented analysis tools, audio filters, & deep learning models from research papers

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

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 tool to manage citizen-science projects
- Maintained and contributed to user tools for individual whale identification and tracking

Technologies : NativeScript, Angular, Android, iOS, PostgreSQL, Java, Spring, firebase

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

- Designed & developed Expert Modeling/Recommender System to rank-match expert staff to tasks
- Fully specified programmatic solutions from use-case meetings with top NASA/JPL employees
- Open Source contributions to the gensim natural language processing library

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 Open Source and Securities lead, developing trainings and enforcing best practices

Technologies : Python, Bash, R, 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

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
- Produced biannual quantitative and qualitative reports on for DARPA and language developers
- Contributed to PPAML, Overseas Voting Foundation, Safeware, Robot Fast Track

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 approximately 5 months
- Participated in threat modeling for multiple security sensitive applications

Technologies : C, C++, Python, SQLite, Subversion, FreeBSD, OpenSSL

Oregon Health Science University

Computer Science & Machine Learning
Masters of Science
2016 – present

Western Washington University

Computer Science & Cryptography
Bachelor of Science, Mathematics Minor
2012