Philip Robinson

UTC-7

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https://github.com/probinso

Personal Statement

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

Skills/Experience :

Research MVPs Linux Systems Training/Mentoring Ticketing Systems Data Sciences Teamwork Communication Merry-go-rounds

Work Experience _

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

Graduate Research CSLU/ACO - Deep Learning in Marine Acoustics Sept 2017 - present 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 an intuitive ACO track explorer, 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

- Graduate Data Science Intern June 2018 - Sept 2018 NASA Jet Propulsion Lab Developed NLP Expert Modeling/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 and 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

- Remote Contractor/Consultant Nov 2015 - Aug 2018 RGB Optics (Part Time) 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 Provided technology tutorials and consultation on code optimization, NLP, and image processing Technologies: Python, skimage, sklearn, AWS, spark, CliNER, Morphological Watersheds

- R&D Software Engineer April 2014 - Dec 2015 Galois Inc. 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 EMC² 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

Western Washington University Computer Science & Cryptography

Masters of Science 2016 - present

Bachelor of Science, Mathematics Minor 2007 - 2012