

<https://github.com/probinso>**Personal Statement**

I am currently a masters student at OHSU, studying computer science with a focus in signal processing and machine learning. In my several years of industry experience and prior degree, I developed strong interests in cryptography, reproducible research, statistical computing, and programming languages. I have adapted to, and adopted, a new or tool-set in nearly every challenge I have taken on. My interest in teaching and writing has also gained me strong communication skills.

Persistent Experience :

Python	C, C++	Linux	TDD
R	ETLX	Git	Ticketing Systems

Work Experience

NASA Jet Propulsion Lab - Graduate Research Intern June 2018 - Sept. 2018

Developing automatic Subject Matter Expert identification against failure report system
Implemented principled text normalization, tokenization, and model evaluation strategies
Open Source contributions to the gensim's natural language processing library

Technologies : Python, gensim, pandas, jupyter**OHSU Fair Neuroimaging Lab - Research Support Engineer Oct. 2017 - June 2018**

Contributed to workflows and analytics tools for studying Microbiome populations
Supported research on developing brains, including ABCD, and several ADHD/ASD studies
Developed processing pipeline and audit tools for reported data and fMRI images

Technologies : Python, Bash, R, neo4j, ponyorm, stan, GitLab**Contractor/Consultant****RGB Optics / C&W Energy USA Nov. 2015 - Present**

Provided live technology tutorials and consulting on optimization and image processing
Developed low cost spectral profile analysis and custom photo image processing
Developed a cloud memoizing data pipeline for caching computationally expensive operations
Provided hands on training to grow industry scientists in Python

ComScore June 2016 - Sept. 2016

Worked to support large, custom, memory mapped, data store for demographic analysis

PDXCodeGuild June 2016

Developed and taught introductory python course material for coding boot-camp

Melinae March 2016

Setup infrastructure in AWS to enable secure sustainable remote-first workflow
Provided hands on training in Python and R to industry professionals

Technologies : Python, R, AWS, PostgreSQL, Perl, C++, skimage, Jira, ZenHub**Galois Inc. - Research Engineer April 2014 - Dec 2015**

Contributed to PPAML, Overseas Voting Foundation, Safeware, Robot Fast Track
Developed processing pipelines and workflows to enable evaluator work for DARPA programs
Produced biannual quantitative and qualitative reports on for DARPA and language developers
Participated in programs sharing new technologies to research and industry professionals

Technologies : Python, SLURM, Scala, Figaro, Chimp, Docker, Jira, Basecamp**EMC² Isilon Storage - Software Development Engineer Dec. 2012 - July 2013**

Brought to schedule a lagging anchor release feature in approximately 5 months
Designed and developed password manager to support Data At Rest Encryption
Wrote unit tests using libcheck to attain > 80% code coverage

Technologies : C, C++, Python, SQLite, Subversion**Computer Science Dept. - Mentors Program Director Sept. 2009 - March 2012**

Provided safe environment for training and instruction of students and mentors
Wrote comprehensive quarterly reports, and tools for automatic report generation

Technologies : Ada, C++, Scheme, R, mercurial

Neato Projects

Whale vocals localization and analysis	<i>jupyter, matplotlib, scipy, Python</i>
Workshop collaborative introduction to GitHub and slides	<i>markdown, bash, githhub.api</i>
Morphological Watershedding Algorithms	<i>pyspark, numpy, ndimage, Python</i>
Relevance Vector Machine	<i>Julia</i>
Information Retrieval Cluster/Rank Demo Harness	<i>flask, numpy, sklearn, Python</i>
Gene Data Breast Cancer Drug Predictor	<i>R, caret</i>
N-Body Simulator	<i>SIUnits, Julia</i>
Distributed Fully Homomorphic Encryption System	<i>Hadoop, Python</i>
Concurrent Elliptic Curve Cryptography Module	<i>Sagemath, Erlang</i>
Multilingual Analysis of Subordinating and Coordinating Conjunctions	<i>R, Perl</i>
AdaRailz Concurrent Model Train Control System	<i>Ada</i>
TwixT AI Agent and UI	<i>Java</i>
Fractal Art Generator & Image Manipulation Program	<i>C#</i>
Unix Shell	<i>C</i>
Liars Dice Game Server	<i>C</i>

Education

Oregon Health Science University	CSLU
Computer Science MSc	
2016 - present	
Courses :	
Digital Signal Processing	Computing Ethics
Problem Solving with Large Clusters	Statistical Methods
Image Processing	Univariate Statistical Analysis
Machine Learning	Analysis of Sequences
Information Retrieval	
Western Washington University	Computer Science
Computer Science BS, Mathematics Minor	
Sept. 2007 - June 2012	