Philip Robinson

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Personal Statement

I am currently a graduate student at Oregon Health and Sciences University, studying machine learning and statistical modeling. After completing my BS at Western Washington University, and my 4 years industry expirience, I have developed strong interests in cryptography, statistical computing, and programming languages. I am a very quick study, as I have 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.

Language Experience :

⋆ Python	Julia	Scala, Figaro	Perl
Ada	R	C, C++	LaTeX

Education

Oregon Health Science University — CSLU

Computer Science MSc
2016 – present

Courses :

Machine Learning
Information Retrieval
Computing Ethics
Statistical Methods
Univariate Statistical Analysis
Analysis of Sequences

Extra Carricular — MOOC/Bootcamp

Coursera / EdX / Stanford Online / Hack Oregon

Courses :

Linear Algebra Done Right
Simulation and Modeling of Natural Processes
Convex Optimization
Functional Programming in Scala
Applied Cryptography
Agile Machine Learning

Western Washington University — Computer Science

Computer Science BS
Mathematics Minor
Sept. 2007 – June 2012

Electives :

Homomorphic Encryption Systems
Cryptography & Elliptic Curves
Artificial Intelligence
Natural Language Processing
Functional Programming
Computer Graphics
Computer Architecture
Number Theory
Elementary Real Analysis
Linear Algebra I/II

Work Experience

Independent – Contractor/Consultant

C&W Energy — **Nov. 2015 – present**

Authored educational material in light pollution on economy, biology, and technology
Light classification engine, custom photo image processing tools, and mathematical models
Developed a memoizing data pipeline for caching computationally expensive operations

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 workflow for remote company
Provided hands on training in Python and R to industry professionals

Languages Used : Python, R, AWS, PostgreSQL, Perl, C++

Galois Inc. **– Research Engineer** **April 2014 – Dec 2015**

Contributed to PPAML, Overseas Voting Foundation, Safeware, Robot Fast Track
Developed techonologies 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

Languages Used : Python, Scala, Figaro, Chimpy, Docker

EMC^2 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

Languages Used : C, C++, Python, SQLite

Computer Science Dept. **– Mentors Program Director/Mentor** **Sept. 2009 – March 2012**

Provided safe environment for training and instruction of students and mentors
Ran student/faculty meetings to project future program responsibilities
Wrote comprehensive quarterly reports, and tools for automatic report generation

Languages Used : Ada, C++, Scheme, R

Neato Projects

Relivance Vector Machine Module	***Julia***
Sensor Systems and Light Pollution Analysis	***aws, sklearn, scipy, PonyORM, Python***
Gene Data Breast Cancer Drug Predictor	***R, caret***
Gradient Descent on Arbitrary Degree Hyperplanes	***Julia***
Probabilistic-Program Profiler and Evaluator Harness	***SLURM, PonyORM, Python***
Distributed Fully Homomorphic Encryption System	***Hadoop, Python***
Concurrent Elliptic Curve Cryptography Module	***Erlang, Sagemath***
Multilingual Analysis of Subordinating and Coordinating Conjunctions	***R, Perl***
AdaRailz Concurrent Model Train Control System	***Ada***
Fractal Art Generator & Image Manipulation Program	***C#***