Philip Robinson

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Personal Statement

I am a graduate student at Oregon Health and Sciences University. After completing my BS at Western Washington University, and my 4 years industry expirience, I have developed strong interests in cryptography, statistical computing, and languages. I am a very quick study, as I have adopted a new programming language or tool-set in nearly every challenge I have taken on. My interest in teaching and writing has granted me strong communication skills, and solid background.

Language Experience :

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

Education

Oregon Health Science University   CSLU

Graduate Student
2016 – present

Courses :

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

Extra Carricular   MOOC/Bootcamp

Coursera / EdX / Stanford Online
Hack Oregon

Courses :

Functional Programming in Scala	Agile Machine Learning
Applied Cryptography	PPAML Summer Program

Western Washington University   Computer Science

Computer Science BS
Mathematics Minor
Sept. 2007 – June 2012

Electives :

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

Work Experience

Independent   – Contractor/Consultant

C&W Energy   Nov. 2015 – present

Authored educational material on light pollution's effect on economy, biology, and technology
Light classification engine, custom photo image processing tools, and mathematical models
Developed a memoizing database-interface 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

Project	Technologies
Information Retrieval Cluster Rank Demo Harness	*python, scipy, sklearn*
Relivance Vector Machine with kernel and platt support	*Julia*
Sad Clown Research Group	*pelican, blog*
Sensor Systems and Light Pollution Analysis	*aws, sklearn, scipy, PonyORM, Python*
Gene Data Breast Cancer Drug Predictor	*R, caret*
Gradient Descent on Arbitrary Degree Polynomials	*Julia*
Splinqr – Shamir Secret QR Sharing	*Python*
Probabilistic-Program Profiler and Evaluator Harness	*SLURM, PonyORM, Python*
Distributed Fully Homomorphic Encryption System	*Hadoop, Python*
Concurrent Elliptic Curve Cryptography Module	*Erlang, Sagemath*
Analysis of Subordinating and Coordinating Conjunctions	*R, Perl*
AdaRailz Concurrent Model Train Control System	*Ada*
Fractal Art Generator & Image Manipulation Program	*C#*