

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 experience, 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++	TeX

Education

Oregon Health Science University

CSLU

Computer Science MSc
2016 - present

Courses :

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

Western Washington University

Computer Science

Computer Science BS, Mathematics Minor
Sept. 2007 - June 2012

Electives :

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

Work Experience

Independent - Contractor/Consultant

C&W Energy USA

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 technologies 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, Chimp, Docker

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
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	<i>Julia</i>
Sensor Systems and Light Pollution Analysis	<i>aws, sklearn, scipy, PonyORM, Python</i>
Gene Data Breast Cancer Drug Predictor	<i>R, caret</i>
Splinqr - Shamir Secret QR Sharing	<i>Python</i>
Probabilistic-Program Profiler and Evaluator Harness	<i>SLURM, PonyORM, Python</i>
Probabilistic WiFi Geolocation	<i>Figaro, Scala, Javascript</i>
Distributed Fully Homomorphic Encryption System	<i>Hadoop, Python</i>
Concurrent Elliptic Curve Cryptography Module	<i>Erlang, Sagemath</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>