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

Western Washington University   Computer Science

Computer Science BS
Mathematics Minor
Sept. 2007 – June 2012

Courses :

Unix Software Development	Formal Languages/Automata
Windows Software Development	Programming Languages
Analysis of Algorithms	Concurrent Programming
Linear/Non-Linear Data Structures	Computer Organization I/II

Electives :

Homomorphic Encryption Systems	Computer Graphics
Cryptography & Elliptic Curves	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++

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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 ─────────────────────────────────

Sensor Systems and Light Pollution Course	*aws, sklearn, scipy, PonyORM, Python*
Dating a Band – Lyrics Release Date Classifier	*javascript, 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*
TwixT AI Agent and UI	*Java*
Fractal Art Generator & Image Manipulation Program	*C#*