Philip Robinson

Portland, OR 97219

pmoss.robinson+res@gmail.com
206.377.9747

http://probinso.dyn-o-saur.com

Personal Statement

My industry experience has exposed me to many fun technologies, fueling my interests in cryptography, probabilistic programming, 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. See my project details at http://probinso.dyn-o-saur.com.

Language Experience :

⋆ Python	Figaro	Julia	LaTeX
Scala	Ada	C	

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

Sensor Systems and Light Pollution Course	***sklearn, scipy, PonyORM, Python***
Dating a Band – Lyrics Release Date Classifier	***javascript, Python***
Splinqr – Shamir Secret QR Sharing	***Python***
Probabilistic-Program Profiler and Evaluator Harness	***SLURM, PonyORM, Python***
Probabilistic WiFi Geolocation	***Figaro, Scala, Javascript***
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***
Liars Dice Game Server	***C***

Education

Oregon Health Science University — CSLU

Non-Matriculated (Masters)
2016 - present

Courses :

Analysis of Sequences
Univariate Statistical Analysis
Statistical Methods
Digital Signal Processing

Western Washington University — Computer Science

Computer Science BS
Mathematics Minor
Sept. 2007 - June 2012

Core Coursework :

Unix Software Development
Windows Software Development
Operating Systems
Analysis/Design of Algorithms
Linear/Non-Linear Data Structures
Formal Languages/Automata
Programming Languages
Concurrent Programming
Computer Organization I/II
Object-Oriented Programming in C++

Elective Coursework :

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

Honors and Related Activities

Pacific Rim Regional Collegiate Cyber Defense Competition (Fourth Place) - March 2012
Comap Mathematical Modeling Competition (Meritorious Winner) - Top 10% - Feb. 2012
Comap Mathematical Modeling Competition (Honorable Mention) - Top 30% - Feb. 2011