Philip Robinson

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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
- Developed lamp classification engine, photo image processing tools, and mathematical models

ComScore   **June 2016 – present**
- Worked to support large custom memory mapped data store

PDXCodeGuild   **June 2016**
- Developed and taught introductory python course material for coding boot-camp
- Mentored and advised students in achieving career goals

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*
Splinqr – Shamir Secret QR Sharing	*Python*
Probabilistic-Program Profiler and Evaluator Harness	*SLURM, PonyORM, Python*
Probabilistic WiFi Geolocation	*Figaro, Scala, Javascript*
Cryptographic Distributed Virtual System Vectors	*LaTeX, Haskell*
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*
Liars Dice Game Server	*C*

Education

University

BS Computer Science, Western Washington University (WWU)
Mathematics Minor
Sept. 2007 – June 2012

Core Coursework :

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

Elective Coursework :

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

Honors and Related Activities

WWU Scholar's Week Poster Competition (Two Submissions)	– May 2012
Kryptos Cryptanalysis Challenge	– April 2012
Pacific Rim Regional Collegiate Cyber Defense Competition (Fourth Place)	– March 2012
Comap Mathematical Modeling Competition (Meritorious Winner) – Top 10%	– Feb. 2012
International Collegiate Programming Contest	– Nov. 2011
Comap Mathematical Modeling Competition (Honorable Mention) – Top 30%	– Feb. 2011
William Lowell Putnam Competition	– Dec. 2010
WWU ACM Programming Competition (First Place)	– Jan. 2010
WWU Computer Science Distinguished Scholar Award	– Sep. 2007