

<http://probinso.dyn-o-saur.com>**Personal Statement**

My industry experience has exposed me to many fun technologies, fueling my interests in cryptography, probabilistic programing, 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 material on light pollution's effect on economy, biology, and technology
 Developed lamp classification engine, photo-image analysis tooling, and mathematical models
 Provided hands on training to grow industry scientists in Python

Melinae**March 2016**

Setup infrastructure in AWS to enable secure sustainable workflow for remote company
 Provided hands on training in Python and R

Languages Used : Python, R, AWS, PostgreSQL**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, then wrote tools for report generation

Languages Used : Ada, C++, Scheme, R**Neato Projects**

Sensor Systems and Light Pollution Course
 Spinqr - Shamir Secret QR Sharing
 Probabilistic-Program Profiler and Evaluator Harness
 Probabilistic WiFi Geolocation
 Cryptographic Distributed Virtual System Vectors
 Distributed Fully Homomorphic Encryption System
 Concurrent Elliptic Curve Cryptography Module
 Analysis of Subordinating and Coordinating Conjunctions
 AdaRailz Concurrent Model Train Control System
 TwixT AI Agent and UI
 Fractal Art Generator & Image Manipulation Program
 Text-Based Adventure Game
 Unix Shell
 Liars Dice Game Server
 Petrographic Mineral Identification Database Design Documents

sklearn, scipy, PonyORM, Python
Python
SLURM, PonyORM, Python
Scala, Figaro, Javascript
 \LaTeX , Haskell
Hadoop, Python
Erlang, Sagemath
R, Perl
Ada
Java
C#
C++
C
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