Blair Gemmer {blairgemmer.com – blair.gemmer@gmail.com – 406.253.4962}   © 2015

Experience

Freelance Software Developer   May 2009 - Present
{**Missoula, Montana**}

* Developed biological models in Matlab.
* Developed an application for scraping image data from Imgur.
* Updated and developed web applications.
* Performed data analysis on personal financial systems.
* Developed applications to test security of personal network.
* Developed an application for adjusting hash values of a given file.
* Developed an application for beautifying filenames in an entire folder.
* Developed an application for organizing singleton files.
* Participated in CSCI 595 - Introduction to Cybersecurity, taught by Sherri Davidoff.

Security Consultant **Lake Missoula Group, LLC.**   February 2015 - Present
{**Missoula, Montana**}

* Handled a diverse client base including banks, hospitals, and retail outlets.
* Conducted a variety of engagements including:
  . Internal and External Vulnerability Assessments (IVA, EVA).
  . Internal and External Penetration Tests (EPT, IPT).
  . Web and mobile Application Security Assessments (WASA).
  . Wireless Infrastructure Assessments (WIA).
* Wrote detailed reports and presented results for each type of engagement.
* Performed tech reviews on assessments conducted by other consultants.

Senior Software Developer **Hanna-James Enterprises, LLC.**   July 2014-February 2015
{**Missoula, Montana**}

* Wrote Terminal-Based Test Automation Software in Python.
* Wrote specification document for GUI-Based Test Automation Software in Python.
* Wrote proof-of-concept prototype for D3-based ToR Network Tracking software in Coffeescript.
* Wrote specification document for GUI-Based SDK Architecture.
* Designed and wrote entire MySQL database for SDK toolkit and implemented a data abstraction layer in Python with distinct connectors for loading the GUI, expanding a specified tool, building a tool for insertion into the database, and setting up the toolchain for execution.

Teacher's Assistant **Programming Languages**   Spring 2012
Teacher's Assistant **Computer Ethics**   Fall 2011
Instructor **Computer Modeling**   Fall 2010 - Spring 2011
{**University of Montana-Missoula**}

* Taught freshman and sophomore students advanced features of Microsoft Excel and Access and assisted them during labs.
* Graded all assignments, papers, and exams. Also, maintained office hours to be available out of class for individual tutoring and fielding questions from students.

Education

University of Montana-Missoula
M.S. Computer Science   May 2014

Emphasis in Machine Learning, Data-Mining, and Simulations
University of Montana-Missoula
B.A. Psychology, minor in *Math, Media Arts*   May 2010

Technical

Languages (Proficient): LaTeX, Python, C#, Matlab, JavaScript, R, Java

Languages (Familiar): Bash, C/C++, Coffeescript, OCaml, Perl, Ruby

Data: MySQL, SQL Server, JSON, Access, XML

Frameworks: AngularJS, Ajax, ASP.NET, Bootstrap, D3, jQuery, Node.js, ØMQ

Tools: Android SDK, Emacs, GIT, Mercurial, SublimeText, VIM, Visual Studio

Network Security: Aircrack-ng, Burp Suite Pro, Kali Linux, Kismet, Metasploit Framework, Nessus, NeXpose, Nmap, Wireshark/tshark

Operating Systems: Debian and Red Hat-based Linux, Mac OS X, Windows

Techniques: Agile Methodology, Iterative and User-Centered Design, Rapid Application Development

Selected Projects

More information for the following and other projects can be found on my graduate portfolio blairgemmer.com and the source code is on GitHub @blairg23

Bak-Tang-Wiesenfeld Model for Displaying Self-Organized Criticality
Otherwise known as the Abelian Sandpile Model, written in Python using the Matplotlib module.

Earthquakes
A Python script to plot earthquakes that have occurred in the world, using the Matplotlib Basemap module.

Hoot, aka The Wolf Box
A hardware/software solution for broadcasting and recording sounds in adverse climates.

Particle Simulator
A particle physics simulator written in Python using the OpenGL libraries.