

Caleb Madrigal

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Skills

- Strong communicator (speaker and writer)
- Agile/Scrum practitioner
- Languages/Platforms:
 - Python (Django, Flask, NumPy, SciPy, IPython Notebook, Matplotlib, Gunicorn)
 - Javascript (AngularJS, Node.js, Express.js, Underscore.js, Lodash.js, Async.js, jQuery)
 - Objective-C (iOS, Cocoa)
 - C# .NET (ASP.NET, MVC4, NHibernate, Spring.NET)
 - Java EE (GWT, JSF, Spring, Hibernate)
 - C (gcc, sockets, linux, makefile)
- Databases:
 - PostgreSQL
 - MySQL
 - MS SQL
 - IBM DB2
 - Sqlite
- Version Control:
 - Git
 - SVN
- Linux Server configuration (Nginx, Apache, Gunicorn, Supervisor, iptables, sendmail)
- Strong working knowledge of Cryptography and Security

Experience

SpiderLogic

Software Consultant, *March 2011 - Present*

Client: Wisconsin Lawyers Mutual Insurance Company, 2013-2014

- *Technologies:* Node.js, Express.js, AngularJS, MongoDB, Java, SOAP, Oracle
- I'm leading a small team to create a web portal for a legacy enterprise Java policy administration system.

Client: Hewins Financial, 2013-2014

- *Technologies:* Java EE, Google Web Toolkit, MySQL, Linux, Python
- Made an offline version by wrapping the server software in a VM, and wrote a protection layer around it with Python.

Client: MyHealthDirect, 2012-2013

- *Technologies:* C# .NET, ASP MVC4 .NET, Spring, NHibernate, MS SQL, Objective-C
- Wrote Medical scheduling web app
- Wrote Medical scheduling iPad app
- Helped maintain large enterprise API and web app.

Client: Wipfli (Internal Development), 2012

- *Technologies:* Objective-C
- Wrote insurance risk analysis iPad app

Client: SoZo Group, Wipfli (Joint Venture), 2012

- *Technologies:* Joomla CMS, PHP, Linux, Javascript, CSS
- Created web informational portal to provide help to Chinese companies looking to move operations to the US
- Website: <https://chinausportal.com/index.php/en/>

Client: ScenarioNow, 2011-2012

- *Technologies:* Java EE, Google Web Toolkit, MySQL, Linux
- Wrote financial modeling software for financial advisors

Client: Church Mutual Insurance Company, 2011

- *Technologies:* Java EE, Spring, Hibernate, JSF, IBM DB2
- Wrote Java EE application to manage actuarial statistics for Insurance Rating Software

Astronautics Corporation of America

Software Engineer, *June 2008 - March 2011*

- Wrote software in the C programming language for the Airbus A400M Network Server System (NSS).
- Developed several APIs based on requirements which I gathered from multiple teams.
- Developed company-wide Python coding standard and gave training presentations on Python.
- Wrote a hardware emulator in Python for use in our labs.
- Wrote Software design documents which used UML diagrams to communicate software module design and interactions.
- Authored the Software Requirements Document for one of the components for the NSS in IBM Rational Doors (requirements tracking software).
- Wrote Test Cases, Test Procedures, and Test Applications (in C and Python) to verify requirements.
- Followed DO-178B for process flow, requirements, testing, implementation, etc.

Hitcents

Software Engineer, *August 2006 - May 2008*

- Developing an Enterprise Resource Planning (ERP) system.
- Desktop front-end to ERP in C# .NET/XAML/WPF
- Integrated Microsoft Office with ERP system.
- Wrote socket-level communication system for both the server-side and front-end of ERP.

- Wrote web software for ERP system using Perl, Javascript, CSS, and HTML.
- Developed access control software that uses Radio Frequency Identification (RFID).
- Certified RFID specialist at Hitcents.

Teksouth

Programming Summer Intern, *May 2005 - August 2005*

- Wrote a program that controlled the magnetic front door lock, using MS Outlook calendar as a front end for scheduling.

Side Projects

Home Security System

- For fun and security, I built a home security and automation system
- Hardware: RaspberryPi, hacked remote controlled outlet set, hacked magnetic sensor
- Software: Python, Flask, jQuery Mobile

Other Side projects

- See <http://calebmadrigan.com> for more side projects.

Speaking

O'Reilly Open Source Convention (OSCON) 2013

Topic: Sound Analysis with the Fourier Transform and Python

- [Presentation Notes](#)

Milwaukee Barcamp 2011

Topic: Using Transparent HTTP Proxies for Live Web Traffic Manipulation

- [Code used](#)

Education

Bachelor's in Computer Science - Western Kentucky University

- GPA: 3.80 on a 4.0 scale (Graduated May 2008)
- ACM President of WKU local chapter (2007-2008)
- Future Leader Award in Computer Science (2008)
- President's Scholar at WKU (2007-2008)