

Jonathan M. Gardner

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Skills

Programming Languages

- Perl
- Python
- C/C++
- Java
- Javascript

Operating Systems

- Linux (Fedora, RHEL)
- Windows XP/7

Technologies

- Apache Web Server with mod_perl, mod_python, mod_wsgi, etc...
- eCommerce Website Development and Management
- Basic web protocols: HTML, XHTML, XML, HTTP, TCP/IP
- Databases: Oracle, PostgreSQL, MySQL, Sybase, BDB
- Unix development environment, including CVS, RCS, Git, BASH, ViM, etc...
- GUI: Qt, PyQt, Qooxdoo, YUI, jQuery, and many more.
- Python C-Level Programming
- Amazon infrastructure, Java, C, Python, and Perl.

Other

- Project Management
- Complete website design and maintenance
- Email system design and interface
- Worked on holiday promotions platform for Amazon

Work History

Deal-Digger.com

Chief Executive / Developer, 2010-2011

Working with my partner Scott Loughran, we raised over \$30k in cash from friends and relatives to build Deal-Digger.com. We signed up over 150 retail locations in the Puget Sound area with 450 subscribers.

Developed the Deal-Digger.com website, which is AJAX-based, on the Pylons platform, using YUI3 for the Javascript library.

Working with Andrew Gardner remotely, developed an Android and iPhone app that directly integrates with the data on the website using innovative techniques to manage the limited network connectivity of these devices.

Using Deal-Digger.com, people can easily find deals near their home or office, and businesses can post as many deals as they want. Deals are also cross-posted to Facebook and Twitter.

Developed a solid business plan and presented to several groups in the area.

By April '11, we had formed relationships with the Everett and Des Moines business communities, along with the Washington wine industry. Although we have been unsuccessful as of yet in obtaining investment funds to power an appropriate regional marketing campaign, we continue to sign up new businesses and new customers.

Amazon.com

Software Engineer / Web Developer, 2003-2010

Deals Platform (2008-2010):

- Worked on company-wide promotions platform for holiday seasons in 2008, 2009 and 2010.
- Led as architect and developer for the 2009 Customers Vote Platform.
- Led as architect and developer for the 2010 Deals Platform, which incorporated numerous company systems. Championed the reforms, organized feedback, laid out a multi-year project strategy, and executed on the plans with a team of several developers. Assisted several other teams to transition to the new platform, which they reported was far more elegant and easy to use than most other systems within the company.
- Lead in extending the platform to allow for multi-ASIN deals, a project that involved teams from across the company and required several engineers from various teams to work together.
- Modified Best Deals system so that it could effectively advertise more deals. This led to an increase of revenue from less than \$1M/year to over \$150M/year on that one platform.
- Worked on technical problems that stumped the experts at Amazon, such as high-speed parallel caching in Java. I discovered key issues very early in the development process, formed task forces to address the issues, engaged experts from around the company, and took the lead in mitigating the effects of the unforeseen delays by inventing development strategies to keep the project moving forward.

Email Team (2003-2008):

- Developed the email campaign manager platform interface on Apache with mod_perl, which was the prototype for several other teams.
- Lead developer on the email campaign manager platform interface.
- Helped champion SPF (an email technology) into the Amazon email system.
- Introduced Python to the Email team and integrated Python with key Amazon systems.
- Lead a team of three in developing an email loading system to handle parallel loading of millions of customer records into thousands of campaigns simultaneously in real-time.

Smooth Corporation (iFLOOR.com, DIYFlooring.com, CornerHardware.com)

Software Engineer

2003

Smooth Corporation manages several successful internet flooring and hardware companies. Using perl, PostgreSQL, and other tools, I successfully developed tools to assist the accounting department in their day-to-day activities. Also, I developed pages to show live statistics on sales and profit. My page was instrumental in helping motivate the sales team to maximize profit and return customers.

Archer Optometry Software

Software Engineer

2003

Working with an optometrist locally, I developed a complete software package to manage the patient records, insurance claims, and accounts for small optometry practices. I was responsible for detailing a design to meet the specifications of the users and the insurance claims clearinghouse. I implemented the software using perl, PostgreSQL, Python, and Qt to meet the requirements. I also tested, led user evaluation sessions, fixed bugs, and added features.

Classmates Online, Inc. (Classmates.com)

Software Engineer

2002

As a mod_perl software engineer, I was responsible for maintaining and enhancing the website. I also implemented a solution to move data from a burdened Oracle database to a PostgreSQL database and then process the data into Verity collections. I implemented a project with a team to enhance the user experience at Classmates and encourage more subscriptions and user interaction. I implemented several emergency bug fixes with components I was never introduced to in a short time period. I was asked to make design decisions and estimates and work within tight deadlines, as well as assist with website change deployment.

CarDomain Networks, Inc. (SoundDomain.com, CarDomain.com)

Software Engineer
2000-2001

As one of two software engineers at CarDomain Networks, I was responsible for the Sybase and Oracle databases, the Apache mod_perl website, and internal products. Using perl, I redesigned and reimplemented the accounting, customer management, and inventory systems. I was key in implementing self-managed customer web pages, as well as migrating data from the Sybase to Oracle databases. I was responsible for investigating products to add to our website, including a search engine. I was key in developing the development environment and development process, as well as discovering and solving problems related to performance and user experiences.

Education

University of Washington

BS Physics, minor Mathematics
Graduated June 2000, 3.64/4.00 GPA; 3.9/4.0 in C++ course

Achievements

- Presented “SPF - Past, Present, and Future” for SPUG (Seattle Perl User Group) and FedLUG (Federal Way Linux User Group) in 2004.
- Founded FedLUG (Federal Way Linux User Group)
- Developed PyT, a Python ASP-like templating system.
- Developed sipPQ, a PostgreSQL Python interface using sip.
- Presented “PyQt - Python and Qt” at LinuxFest Northwest, May 2003
- Presented “Advanced Regular Expressions” at SPUG (Seattle Perl User’s Group), September 2002
- Maintained binary distributions of the PyQt project
- Active contributor to a variety of Free Software / Open Source projects
- Fluent in spoken and written Korean
- Achieved Eagle Scout rank in Boy Scouts of America
- Member of Golden Key Honors Society

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