

Clayton Rabenda

Santa Clara, CA - Email me on Indeed: indeed.com/r/Clayton-Rabenda/0677dcff9555e29b

Authorized to work in the US for any employer

WORK EXPERIENCE

Senior Software Engineer

Google - Mountain View, CA - August 2014 to September 2016

AdSpam Mobile Engineering - anti ad-fraud

Senior Software Developer

Amplify Education, Inc. - New York, NY - March 2013 to July 2014

Wrote/co-wrote two HTML5-based cross-platform mobile apps(iOS, Android, Web), "Who Killed Poe" and "Perception Academy", plus two companion teacher guide apps with similar cross-platform requirements and architectures.

Independent Game Developer

- April 2011 to April 2012

Designed and coded a multiplayer turn-based strategy game from scratch, i.e. with no game framework. Used C with embedded Python, OpenGL, FreeType, libpng, and SDL for game client. Used TwistedPython for server.

Graphic-intense code is done in C and game-logic in Python. Allows the best of both worlds with the minor drawback of python memory management via the Python C API.

Multiplayer games are hosted peer-to-peer-style by one of the players via a TCP connection. Online games can be found on a chatroom- like TCP server coded in TwistedPython which I host.

Current state:

The core game is complete, however some features will be added during the beta. The game will initially be released as a free alpha

version. Before releasing anything though, some marketing will be done. For this purpose a site has been built with the Django framework and MySQL which is hosted at ardtgame.com. I am currently working on the AI.

For now, the site simply exists to collect email

addresses of potential early-adapters who can help test and give feedback during the alpha phase.

Freelance Web Developer

Viacom Inc - January 2009 to April 2011

Furthered my expertise in DHTML. Javascript and AJAX used extensively. Projects often took advantage of those skills to create Rich

User Experiences.

Contributed mostly to ParentsConnect.com. Also NickJr.com and Nick.com when extra help was needed.

As a team, seamlessly transitioned site from legacy Dynamo Application Server to modern Spring Framework/MVC. No disruption of normal project development cycle while this important technological improvement was made.

Significant Projects:

Added Apache Tiles to the Spring Application and demonstrated it's use to the front end team, greatly improved quality of front-end code by separating front-end and back-end function and allowed simpler reusability of front-end code without drawbacks.

Built the Homepage, the "Region Page", the "Product Guide", and the "Calendar Page" and it's accompanying "Event Page".

Web Consultant

Adam Jacobs Associates Inc - March 2008 to September 2008

Consulting position on a six month project for LadiesWhoLaunch.com. Project goal was to replace an existing flash site for Ladies Who

Launch and to add some new features.

Used a LAMP stack and ported data from legacy MSSQL database.

Primary responsibility was the oversight of the design and implementation of the front-end. Kept the look and feel of the legacy flash site by using DHTML, Javascript, and CSS to recreate flash-like user experience. Allowed deep-linking and correct back button behavior, which the flash site had not supported.

Also assisted with design and implementation of back-end. Gained significant experience with Unix(Redhat/CentOS), Apache, SVN, and

Mac OS-X.

Significant Projects:

SEO Management Tool. Allowed each URL on our site to be assigned a title, meta-description, and meta-keywords so that business

people could manage these important SEO tags.

Wordpress Implementation. Fully customized implementation of wordpress to exploit wordpress's CMS in order for business people to publish/manage new content on the site. Seamlessly tied to the rest of the site's look and feel.

Homepage CMS. Allowed business people to update, preview, and publish new content for our homepage.

Web Developer

Spafinder.com - March 2007 to March 2008

Primarily responsible for bug-fixing and feature implementation on the front-end.

Projects ranged in complexity from simple HTML changes to complex solutions involving all aspects of web development

Improved skills in HTML, CSS, and Javascript and gained significant experience in Java web development and became familiar with various popular web technologies in the Java community including J2EE, Spring, Struts, Tiles, JSP/JSTL, the Servlet API, and Apache.

Significant Projects:

Map Lat/Long data retrieval widget. Used various mapping APIs(Google, Yahoo, etc.) to run a text search and return a list of

Latitude/Longitude coordinate data in order to map clients' locations.

Image Management Tool. Allowed our clients to manage their images on our website using dynamic HTML and AJAX to upload, sort, and resize their images.

Various Mini-sites. Developed various 'mini-sites', typically worked closely with a business person(s) and a designer to flush out design

requirements and specifications and implemented with feedback for business needs and usability.

Day Spa Deals API. Allowed our partners to manage promotional and scheduling data for spas over HTTP via JSON.

Junior Developer

Classlink - September 2005 to January 2007

First professional software development experience. Did a lot of learning here and gained experience with SQL, Javascript, HTML/CSS, C#, regular expressions, XML, and various other technologies.

Significant Projects:

OnTrack. One of a pair of web products based on a common framework built in ASP. Ontrack allowed teacher/students to manage various data, such as work, grades, and 'academic standards'.

Command Center. One of a pair of web products based on a common framework built in ASP. "Command Center" allowed school administrators to track data from their server farm which was collected via services installed on their servers which publish the data to a central repository at Classlink headquarters.

ClassSync. a tool for managing Active Directory specific to the K-12 school environment which was built in C#.

Standards Importer. Consumed data from a third party which provided us with academic standards data in XML.

EDUCATION

Bachelor of Science in Electrical Engineering

Lehigh University

2000 to 2004

third party outside the university

LINKS

<http://claytonrabenda.com/resume>

ADDITIONAL INFORMATION

Qualifications

Pragmatic Programmer - Takes responsibility for code. Understands code from the ground up, no 'programming by coincidence'.

Breadth of Technological Experience - Experience with SQL, Java, C, Python, and web front-end(Javascript, HTML, CSS). Insight into all

the spheres of web development. Capable of designing and implementing solutions which span client and server. AJAX solutions, in particular, demand this span of knowledge.

Passion for Programming and Technology - Continue to build skills in free time because of an interest that goes beyond a career.

Education in Electrical Engineering - Gives insight into computer architecture and hardware limitations. Many difficult programming

problems must be solved with an understanding of the interactions between various hardware devices, i.e. CPU time versus memory I/O, disk I/O, network I/O, etc.

Technologies

Programming Languages: C, C++, Python, Java, Javascript, HTML/CSS, PHP

Web: Apache HTTP Server, Spring Framework, Apache Tiles, Django Web Framework

SQL: MySQL, MSSQL
Version Control: Git, SVN