Andrew LeTourneau

5002 253rd Ave. NE ⬧ Stacy, MN 55079 ⬧ Cell: (651) 785-6676 ⬧ CenterOrbit@gmail.com

COMPUTER SOFTWARE ENGINEER
EXPERT IN SOFTWARE APPLICATION DEVELOPMENT

Key Skills

Scripting & Markup:
- PHP
- JavaScript
- XML
- HTML
- Python
- Liberty Basic

Database & Data-Interchange:
- MySQL
- AJAX / JSON
- ODBC
- MS Access

Programming Languages:
- Java
- AS3
- C / C++
- C#

Platforms:
- Windows
- Linux
- android
- BlackBerry
- Microcontrollers
  ○ Arduino
  ○ PMD

Libraries:
- jQuery
- jQuery Mobile
- GXT
- SDL
- OpenGL
- HDAPI
- HLAPI
- Box2D

APIs:
(for cross-site login)
- Facebook
- OpenID

Technology Summary

Integrated Development Environments:	Eclipse; Aptana Studio; Flash Develop; Flash Professional; Qt Creator; Microsoft Visual Studio 2005-2010
Operating Systems:	Windows; Various Linux distros, both Debian and RHEL based; Mac OS X;
Dev Kits:	android (SDK & NDK), eclipse ADT Plugin; eclipse PHP Dev Tools (PDT); GWT and eclipse Google Plugin

Professional IT Experience

Johnson Center for Simulation, MN   **Information Technology Specialist (ITS-2)**   **5/2008-Present**

Responsible for the day-to-day management and oversight of software development efforts including conceptualization, implementation, and coordination of custom software solutions. This includes planning, review of requirements specifications, scheduling, developing technical specifications, and coding of solutions to ensure that a sound integration exists.
- Programmer Lead for 3 projects, currently manages direct 1 report

Recent Project Highlights:

Web Application Development:

○ ***Subject Matter Expert data form:*** This application was programmed using the Google Web Toolkit (GWT) with the Google plugin in eclipse. It relied on utilization of RPC (Remote Procedure Calls) from client side JavaScript to server side Java. Running on the Google App Engine. Then on back end, calls were made to a separate server that was PHP powered to access, format, and return MySQL database requests.

○ ***HCMGame.net (iterative development):*** This website serves as a base for students grades 1-6 to learn about health careers and math. All database, and website were developed exclusively by myself. A vast majority of in-game code is also my handy-work. This site securely stores student username and password, along with their recent activty on the site along with their in-game question scoring. This is then graphed out on a "My profile" page. Administrators can use the site able to view aggregate data graphs across the entire grade, and compare it with other schools that are registered with the site.

  ■ Completely object oriented page rendering and user control.

○ ***Social Network Palm Reading PalmTell.com (incomplete):*** This application was programmed using PHP and MySQL. A Project of my own idea, using user uploaded pictures to share with others who give palm 'readings' which is then voted on for most accurate reading. Features include picture handling, scoring and leader board, OpenID and Facebook API to allow logging in with supported sites. An automatic abuse system to filter out inappropriate picture uploads or other negative user contributions.

○ ***In-House Time Tracking System:*** PHP and MySQL logging web application that tracks and manages all running projects and employees. Uses AJAX and JSON for live data update along with ODBC for administrative tools and forms external from the web application. This application used open source software to generate Excel +2007(.xlsx), Excel 97-03 (.xls), and PDF data reporting output.

○ ***More upon request!***

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Education
Pine Technical College
Pine City, MN
(High Honors)
AAS in Computer Programming, 2010

Certifications
Pine Technical College
Pine City, MN
(High Honors)
Networking, 2010

Drafting
- Art CAM
- Cabinet Vision
- Master CAM
- Architectural Pro
- *Cadd 6*

Software Development: Experienced in all phases of the software development life-cycle, including design, coding, unit test, integration & system test, and documentation as necessary including:
- ➢ Programming Lead for advanced haptics training simulation application. (Utilizing: C++, LB, and MySQL)
- ➢ Defining and developing specifications and software architecture road-map including logical, functional, computational, and physical perspectives.

- **Mobile Platforms:** Focused on Android operating system, specifically versions 1.5 to 2.1. General SDK with NDK (Native Development Kit) allowing lower level C++ libraries to be hooked into the standard JVM. GUI development, XML parsing, dynamic loading of assets, and OpenGL ES.

- **Server Administration:** Responsible for all administrator duties on several critical company servers, including: In-house data server, leased VPS, and web server. These servers are in charge of major services including: SAMBA (file sharing), Apache (web serving), SVN (Code repository), and Virtualization technologies.
  - ○ Techniques and tools used: remote SSH (all CLI), bash scripting (setting up backups), FTP, port forwarding, iSCSI, NFS, and sparse files

- **Hardware Management:** Responsible to build and implement custom computers for specific environments and purposes. Extensive computer hardware component knowledge and skills, including servers.

http://stackexchange.com/users/335788?tab=accounts

http://www.linkedin.com/pub/andrew-letourneau/27/7b8/341

Employment History

Pine Technical College: 10/2008 – 5/2010
Student worker as a peer tutor. Subjects tutored include: trigonometry, college algebra (and lower), blueprint reading, various computer and programming classes.

Plastech Corporation: 03/2008 - 10/2008
Full-time plastic mold injection operator while completing college education.

Sunrise Market: 04/2007 – 03/2008
Part-time cashier and carryout assistant; also responsible for several light maintenance tasks.

Wood It Be Incorporated: 04/2005 – 02/2007
Custom cabinet maker responsible to create face frames, doors, and drawers that included cutting, assembling, prep-finishing, and installation that required fine attention to detail to produce product within specification and no appearance flaws.