

Eli White

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OBJECTIVE: Seeking an engaging intern position developing large scale applications.

EDUCATION:

University of Washington, Seattle, WA

BS in Computer Science, GPA: 3.55, September 2008 - June 2013

PERSONAL PROJECTS:

Music Visualizer - <http://www.youtube.com/watch?v=rnahGrcwZ9Q>

Jan 2009 – Present

- Designed and built a circuit that allowed a microcontroller to communicate to a host over USB and control LEDs using PWM.
- Wrote firmware that received commands from a host over USB that stored values in microcontroller's memory.
- Wrote a host application that runs user defined animations and can set specific LED set's color.
- Developed a C# application that caught audio output from a sound card, performed beat detection over frequency bands, and output beats to the hardware.

WhiteBoard Discussion Board - <http://community.sarosoftware.com>

Mar 2007 – Sep 2010

- Built an open source discussion board solution implementing algorithms and designs previously available exclusively in paid solutions.
- Wrote 14,000 lines of object oriented PHP utilizing MVC and other design patterns.
- Modified the core of the software to be a standalone web framework (Saros Framework).

Saros Framework - <https://github.com/TheSavior/Saros-Framework>

Sep 2009 – Sep 2010

- Developed an open source MVC based web framework for PHP applications.
- Built an ORM to allow applications to support data stores in different locations.
- Developed a customizable ACL system allowing applications to manage user's permissions.
- Documented all APIs and developed against Interfaces and Abstract base classes to allow heavy customization and custom implementations.
- Wrote unit tests to test functionality and consistency of releases.

RELATED EXPERIENCE:

Microsoft, Applied Sciences Group – Research Software Development Engineer

Jan 2011 – Mar, Sep – Present

- Worked full time while in school part time.
- Developed Mayhem, an open source application for personal automation that utilizes an event / reaction workflow.
- Developed against 3rd party APIs to communicate with network events, hardware, and applications.
- Managed three full time employees, three contractors, and an intern and led thrice weekly team meetings.
- Designed the interface, architected the software, built demo modules, managed the code repository and issue tracker, led the commercial marketing effort, and implemented a system for automatically updating modules.
- Architected the online app store and it's connectivity with Mayhem for downloading and installing 3rd party modules.
- Demoted to executives, other groups, and people of interest.
- Presented at conferences: TechFest, Faculty Summit, W/WL Tradeshow, and The Garage Science Fair.

Microsoft, Windows Phone Services – Software Development Engineering intern

Jun 2011 – Sep 2011

- Developed Mayhem focusing on phone related scenarios.
- Collaborated with 3 Microsoft teams to build a prototype showcasing Mayhem's use on a personal device.

University of Washington, Computer Science and Engineering - Teaching Assistant

Mar 2011 – Jun 2011

- Explained topics including CSS Box Model, PHP scripting, SQL statements, and client interaction with Javascript.
- Led 70 students in quiz section and lab. Graded assignments and held office hours.

Microsoft, ASP.NET - Software Development Engineering Intern

Jun 2010 – Sep 2010

- Worked on the ASP.NET team developing the Razor Syntax.
- Added functionality to the membership and roles sections of the web security framework.
- Wrote unit tests and participated in code reviews to ensure proper implementations.
- Developed a helper to make styling and theming a web application easy to implement.
- Built one of four template applications that shipped in WebMatrix.

Teridian Semiconductor Corporation - Software Engineering Intern**Jun 2009 – Sep 2009**

- Designed multi-threaded host level GUI applications for firmware testing and IC systems over serial and SPI
- Applications controlled system watchdog, performing 32-bit energy calculations, and accessing multi-bit or multi-byte registers.
- Worked with engineers to troubleshoot firmware bugs, design GUI application interface, write user guide manual, and demonstrate products to customers.

University of Washington, Department of Technical Communication - Research Assistant**Oct 2008 – May 2009**

- Assembled an interactive robot for human-robotic interaction research.
- Worked on mapping software to allow autonomous movement and navigation.
- Designed software to automate common tasks of research studies.

MDY Industries, LLC (Glider) - Pather Developer and Support Lead**Dec 2007 – Dec 2008**

- Collaborated with a team of 5 developing AI software (bot) that played World of Warcraft.
- Developed navigation algorithms using Dead-Reckoning.
- Wrote a scripting language the bot interpreted to decide all parameters of its task.
- Designed, programmed, marketed, and supported a 3rd party application that dynamically created the scripts the bots used to do specific tasks.
- Supported consumers of all skill ranges in the installation and use of the bot.
- Wrote supplemental installation, usage, and detailed scripting guides.

Power Software – Developer Lead**Jun 2004 - Oct 2008**

- Hired and managed a team of four developers to build a discussion board system.
- Developed product security, wrote software sales contracts, and sold copies of the discussion board.
- Provided consulting services for companies interested in well programmed, user friendly web applications focused on database driven applications; discussion boards, content management systems, and instant message style support applications.
- Averaged 210 downloads per day on a single program over a period of 6 months (~38,000 downloads)

SUMMARY OF QUALIFICATIONS:

- Zend Certified PHP 5 Engineer
- Proficient With: C#, PHP XHTML, CSS, SQL, Razor, Java, ASP.NET, Visual Studio
- Familiar With: WPF, CVS/SVN/Git/TFS/Mercurial, PHPUnit, PHPDoc

LEADERSHIP:

- Boy Scouts – Eagle Scout Rank 2008
- Founded Irvine, CA's Parkour group and led a team of 7 during two years of training.
- Brother in Upsilon chapter of the Theta Xi Fraternity
- Member of University Of Washington's club ultimate Frisbee team.
- Youth Swim Coach