

Amy Brennan

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<http://codesaway.info>

SUMMARY

Outstanding Java Programmer and talented Software Engineer with six years of Java programming experience and proven expertise in the object-oriented programming paradigm, including designing, documenting, and implementing a script library in AutoHotkey that mimics OOP. Some of my skills involve the following:

- Skilled at building upon existing functionality through innovative techniques
- A mathematical mind and talented problem solver
- Excellent communication and interpersonal skills
- Able to break down complex ideas and explain them in simpler parts

EDUCATION

University of Houston, Houston, TX - BS in Mathematics (Computer Science - minor) – December 2009

WEBSITE

RegExPlus: <http://codesaway.info/RegExPlus/>
JavaStar: <http://codesaway.info/JavaStar/>
SystemClipboard: <http://codesaway.info/SystemClipboard/>

AutoHotkey Community

Class Library OOP: <http://www.autohotkey.com/forum/viewtopic.php?t=42244>

[Class] Menu wrapper library: <http://www.autohotkey.com/forum/viewtopic.php?t=40529>

Emulate a for loop: <http://www.autohotkey.com/forum/viewtopic.php?t=42553>

EnvVars: <http://www.autohotkey.com/forum/viewtopic.php?t=43599>

ETA timer: <http://www.autohotkey.com/forum/viewtopic.php?t=43115>

SKILLS

OS: MS Windows, Linux

Languages: Java, C++, JavaScript, HTML, CSS, XML, AutoHotkey, MS Visual Basic, Python

Tools: JUnit, UML, XPath, XSLT, Java Applets, Regular Expressions, WLST

Applications: Eclipse, Netbeans, MS Office, SDL Tridion, WebLogic

EXPERIENCE

Hewlett-Packard, Austin, TX

01/10 to Present

IT Developer/Engineer II

- Automated daily tasks, via code that interacts with the servers I am responsible to support
- Designed several Java libraries:
 - Automation libraries to facilitate interaction with remote Linux and Windows computers
 - MS Excel Files (2007+) – ability to create and modify Excel files (*.xlsx)
- Enhanced several native Java libraries
 - XML DOM – designed a wrapper which adds additional functionality, including better handling of XML files which use namespaces
 - Zip files – Enhanced zipping and unzipping functionality
 - Files & Directories – added functionality to iterate over each file in a directory (recursively), applying a filter or sorting method

CodesAway**05/09 to 12/09**

Lead Programmer

- Started an online business - features libraries and programs that I have developed to make writing code a little easier - uses HTML, JavaScript, and CSS with XHTML 1.0 Strict specifications.
- Designed, documented, and implemented a Java library that extends Java regular expressions – refactors unsupported syntax to an equivalent form, supported by Java’s native pattern class (see above RegExPlus).
- Created a Java Applet that provides online regular expression testing using RegExPlus (see above JavaStar).
- Designed, documented, and implemented a mathematical expression parser - reads an infix expression and creates the resulting parse tree.
- Designed, documented, and implemented a Java utility class that simplifies interaction with the system clipboard (see above SystemClipboard).

www.AutoHotkey.com Forum**11/08 to 06/09**

Programmer

- AutoHotkey is an open-source scripting language for Windows with a large online community.
- Developed, documented, and implemented in AutoHotkey a script library that mimics OOP (see above Class library OOP).
- Designed, documented, and implemented in AutoHotkey a class library to extend menu functionality (see above [Class] Menu wrapper library).
- Designed, documented, and implemented in AutoHotkey functions capable of emulating for loops (see above Emulate a for loop).
- Designed, documented, and implemented in AutoHotkey a function that converts Pre-Vista paths in a string to their Vista equivalent when on a Vista computer (see above EnvVars).
- Designed, documented, and implemented in AutoHotkey functions capable of giving an ETA for the finish time of a loop, file download, etc. – tracks time taken and compares it to percent complete (see above ETA timer).

University of Houston - Women’s Resource Center, Houston TX**11/06 to 02/08**

Programmer

- Maintained an MS Excel spreadsheet that tracked who used the Women's Resource Center and their reason for coming.
- Wrote an MS Excel macro to automate creating the aforementioned spreadsheet for the new semester.
- Helped with event promotion and networking.

Self-Programmer**08/04 to 08/05**

RSA encryption

- Derived mathematical equations capable of describing multiplication properties relating to RSA encryption and factoring large numbers into their prime factors.
- Designed, documented, and implemented Java data structures capable of storing and manipulating the aforementioned equations.
- Designed, documented, and implemented in Java a BigRational class as an extension of Java’s BigInteger class – allows working with fractions.

Central Texas College - Project Pass, Killeen TX**08/04 to 05/05**

Mathematics Tutor

- Tutored students in various math courses (from basic math to Calculus)
- Bi-weekly, individual, one-hour tutoring sessions - usually eight or nine students in all
- Provided walk-in tutoring