

Weiyan Ci

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<https://resume.WillyCi.com/>

Portfolio <https://www.flexcode.org/>

YouTube Channel [playlist link](#)

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Bring imagination to life. Understand the clients' need, create a suitable solution for them, listen to the end users, and help fix their daily problem.

Summary of Qualifications

During fifteen years for software development, I worked on numbers of projects, including website development, multimedia creating, database programming, Java programming, software testing, and hardware testing. I have a programming background in Javascript, jQuery, Flex 3, ActionScript 3, Java, C, C++, VB, ASP, HTML, and SQL. Before my IBM employment, I worked at five different companies as a co-op student, and also worked during academic sessions as the webmaster for several departmental websites at the University of Massachusetts.

Education

University of Massachusetts Amherst - Amherst, MA

Sept 1996 - May 2001

Bachelor of Science, Computer Science
(100% self-finance)

Computer Skills

Hardware: Alpha-based Unix workstation, Intel based PC, Macintosh, and Intel-based Unix workstation

Operating System: Linux, Unix, AIX, MS-DOS, Windows, Mac OS X

Programming: AS3, Javascript, Java, JSP, C, Pascal, Basic, HTML, Dbase, Assemble, and VB.

Other Applications: IBM VisualAge for Java 4.0, Oracle 7.1-7.3.3 (on HPUX, UltraSparc, Sparc, Solaris, IBM Workstation, Digital Alpha, Alpha NT, Win3.1, Win95, WinNT), Adobe Illustrator8.0, Adobe PhotoShop5.0, MS-FrontPage98, RayDream Studio5.0, Infinite-D4.5, Direct8, Flash4, MS-VJ++ and MS-VB5.0, Webmin, Apache WebServer 1.3, ProFTPD Server, Majordomo, TestDirector 7.2, WinRunner 7.0

Experience and Accomplishments

Feb 2019 Guest Speaker at Society for Simulation in Healthcare conference (IMSH) 2019, San Antonio

- Pre-Surgical planning in VR with DICOM

July 2018 Cortana AI Chat Assistant

- Create a Cortana AI chat assistant in Azure, help the user create request ticket, also handle people search and helpdesk questions.

June 2018 Guest Speaker for Visual Studio live Las Vegas 2018

- Cognitive Services, AI chat bot

March 2018 Guest Speaker for Visual Studio live Boston 2018

- AI chat bot

Experience and Accomplishments (Continued)

Nov 2018 Web Based Voice Assistant

- No backend needed, can help the user create request ticket, also handle people search and helpdesk questions. <https://www.umassmed.edu/it/services/web-services/it-help-voice/>

June 2017 Alexa Intelligent Voice Assistant

- Created an Alexa intelligent voice assistant, help people search through huge medical school researcher database, able to handle daily helpdesk questions.

June 2017 Winner of Boston Holohack by Microsoft 2017

- Create 3D model in AR using medical images in real time

Feb 2014 Angular Applications, Online Storyboard Editor

- Mini CMS, export data to XML format
- Easy user interface allows the user to create a storyboard, save data to MySQL or export as XML format. https://www.flexcode.org/js_project/ose/

UMass Medical School

August 2014 - Present

Senior Front-end Developer

Work as Senior Front-end Developer, scrum master, product owner, team lead of web team, design and development for frontend, create interactive, data driven web pages, reuse-able mobile app. Support and maintenance of CMS, aid users with design, HTML layout, JavaScript, JQuery and CSS, as well as creating UI to aid with content editing. Help create and support in house 3D printing lab, create/design medical device and body model, use for research lab, school simulation lab, and hospital. Design and build medical image viewer in AR, build 3D model using medical images in real time. Create 3D VR body reconstruction surgery game, for knee, eye orbit, and skull. Using windows mixed reality technologies create atrial fibrillation and pulmonary vein isolation procedure simulation. Create and design pre-surgical planning in VR with DICOM. Help school, department, and research lab create 360 degree panorama photos and virtual tour.

Advanced Practice Strategies, Inc.

Aug 2012 - Aug 2014

Senior UI/UX Designer, Interaction Developer

Work as member of UI/UX team, create and design the best medical learning method for busy doctors and nurses continue education and certification. Create online interactive teaching method, and online assessment. Also taking role of coordinator, close the gap between content team and engineer team, developed and delivered Gnosis, a SaaS eLearning platform for doctors and nurses throughout the US. Worked on all aspects of a .NET web stack including SQL Server, MVC3 and JavaScript. Create jQuery plugin for widgets using thought out the entire Gnosis application, cross browser compatible design, IE7 to iPad.

RBM Technologies Inc.

July 2008 - Aug 2012

Adobe Flex Senior UI Developer

Convert The RBM FrontLine™ Web Suite into Android tablet compatible application using HTML5 technologies. Create Visual Merchandising Manager (VMM) mobile using Adobe AIR. Design and developed real time 3D floor plan designer with augmented reality technologies, Paperversion 3D, and SketcUp. Using haXe and AIR I created an online/offline app called Fixture Creator, which can generator simple fixture icon(s), and output file in swf, svg, and png formats.

RBM Technologies Inc.
Adobe Flex Senior Consultant

Jan 2008 - June 2008

The RBM FrontLine™ Web Suite is a web base retail merchandising process management tool, helping out with store design, fixture placement, and merchant's layout. As a contractor, I been working with back-end developer, design and developed next generation [planogram](#) designing tool, and fixture placement tool, using Adobe Flex 3 and Actionscript 3, both of them are one hundred percent data driven UI, fully translatable web based applications. Keep the customer in mind, both applications are designed with easy understanding visual interfaces, user error proof, data entry validation, better, more understandable error messages, and auto-convert, autocorrect old data into newer formatted data. They also have built in debug function to help back-end developer to debug within the application. Project is finished on time and within budget.

Centive Inc.
Sr. UI Software Engineer

May 2006 - Jan 2008

Create web based technology solutions for automating compensation management, using latest web 2.0 applications, develop rich interface web application using *Flex* and *ActionScript* from Adobe (Macromedia).

<http://www.centive.com/services/compel>

- Use Flex 1.5 and 2.0 create reusable *components*.
- Write UI controller in and data processing ActionScript 3.
- Migration Flex 1.5 to 2.0, ActionScript 2 to 3.
- Work with mid-tier Java developer, connect EJB Weblogic to front end.
- Help with project plan and production maintenance.

IBM Inc.
Software Engineer, Services Professional

June 2001 - 2006

In the e-business Integration, Enterprise Application Development Practice. The practice is responsible for providing project management, integration services, and e-business solutions to area businesses.

Web site focused projects:

- Served as a member of a creative team in building a new web section (About Us) for *American Express*, responsible for *HTML*, *ASP*, and *CSS* codes.
http://home3.americanexpress.com/corp/pc/press_center.asp
- Participated in creating a demonstration website for *Allstate* Insurance Company. Using *HTML*, *JSP*, and *Flash* to show client what IBM can create for them.
- Join a creative team to build a Flash presentation for *American Express*, responsible for both *Actionscript* codes and *Flash* animation.
- Worked productively in a development team to build an intranet website from the ground up for *Aetna* Insurance Company, Responsible for *HTML* templates, *CSS*, and *JSP* codes.
- Successfully designed, developed and implemented the new *IBM W3 Bluepages* with new function and interface (IBM w3 Bluepages is an intranet for IBMers doing research on other IBMers, include contact information, projects, job experience and special interest), responsible for *HTML* templates, and *CSS* codes.
- Work as web developer in "full cycle" website design and creation for *Regulatory Data Corp.* to design and create their entire website. Using *HTML*, *JavaScript*, *CGI*. <http://www.regulatorydatacorp.com/>
- Join the development team in the website rename and upgrade of *Altria Group (Philip Morris)*. Responsible for micro design documents, *HTML* templates, *ASP* transform controlling, and *CSS* codes for the new website. <http://www.altria.com/>

Multimedia Focused Projects:

- Join the production of a short introduction film for **American Express**, to help an IBM marketing effort. Digitized all film footage, edited movie clips, and create the interface layout. Software used includes: **Adobe Premiere, Adobe After Effects, and Adobe Photoshop.**
- Served as a team member in generating a 15-minute 3-D computer animation movie, designed as non-violent children's entertainment (for age 4 and up.) Software used includes: **RayDream Studio, Infinite-D, Adobe Premiere, Adobe After Effects, and Adobe Photoshop.**

Software Focused Projects:

- Work as a back-end Java developer on **IBM ERS** (Expense Report Solution), working with individual clients, create specific functions for each client's need. The back-end will control the application's administrative functions, and passing data between **DB2/Oracle** and the front-end in a **J2EE** environment.
- Work as Java developer on IBM MSP (Multiple Service Platform) 300MM wafer FAB (Fabrication facility) FOUP (front opening unified pods) responsible for create, customize, installation and maintenance of the MSP application in the 300mm environment. MSP connect SiView and individual 300MM tools, create world first fully automated semiconductor manufacturing facility.
- Developed an MS-Access tool to organize test cases and test scripts for systems tests on **Fidelity** project. Using Microsoft **Access**, and **VB script.**
- Worked on the development a new internal labor-claiming system for IBM. Using Microsoft **Access**, and **VB script**, it can generate weekly labor hour report for management.

University of Massachusetts Amherst - Amherst, MA

Sept 2000 - May 2001

Webmaster

- Webmaster for Department of Plant and Soil Sciences
- Webmaster for Office of Jewish Affairs
- Designing and coding Web-pages
- Designing Web-based images; i.e., image process, animated pictures, various banners, buttons and logos

Network Engines Inc. - Canton, MA

June 2000 - Sept 2000

Software Testing Engineer (Co-op)

- Developed automated testing software on Windows system (using VB)
- Designed and created Linux FTP testing process for hardware reliability test (using C and shell scripts)
- Testing Network Engines modified version of Webmin and Apache Web Server which resides on Viper LX

Microway Inc. - Kingston, MA

June 1999 - Sept 1999

Software Design Engineer (Co-op)

- Designed and created Microway's compiler driver 0.9 and 1.0 testing software on Linux platform (using C)
- Analyzed performance and reliability of Alpha 21264DP hardware and software (using SPEC95)

Excel Switching Co. Lucent - Hyannis, MA

Sept 1998 - Jan 1999

Hardware Testing Engineer (Co-op)

Software Design Engineer

- Designed Purge Information Collector (Database management system, using MS-Access)
- Designed DMT plans and test procedures (Design Maturity Test)
- Documented hardware test plan
- ARPP calculation (Automated Reliability Prediction Procedure calculation)
- Assisted in-house computer lab

UMass Amherst Career Network - Amherst, MA

June 1998 - Aug 1998

Webmaster (Co-op)

- Designed and coded Campus Career Network's Web-page
- Designed Web-page graphics; i.e., image process, animated pictures, various banners, buttons and logos.
- Set up and maintained Campus Career Network's Web site

Credentials

- B.S. in Computer Science from the University of Massachusetts Amherst.
- Certified as a Java 2 non-GUI programmer.
- Certified as a WebSphere Servlet programmer.
- Certified as a Mercator programmer.
- Certified as a TestDirector 7.2 developer
- Certified as a WinRunner 7.0 programmer.

Languages

- Fluent in Mandarin and Cantonese Chinese.

Patent

- **US20130076726 Confirming Compliance with a Configuration.**
Confirming compliance with a configuration includes: receiving information about a fixture, where the information includes a specified configuration of items to be displayed on the fixture; generating a display using the information, where the display depicts the specified configuration; presenting the display using a graphics system of a computing device; receiving an image depicting an actual configuration of the fixture; associating metadata with the image, where the metadata includes searchable data that distinguishes the fixture from at least some other fixtures of like type; sending the image, along with the metadata, over a network to a server that is remote from the computing device; and in a case that the specified configuration substantially matches the actual configuration, sending, along with the image and the metadata, a message indicating that the fixture is in compliance with the specified configuration.

Nationality

- US citizen