

# FELIX C. WU



[felix.wu@gmail.com](mailto:felix.wu@gmail.com)  
<http://www.felixwu.com>  
<http://www.linkedin.com/in/wufelix>  
<http://www.github.com/runwuf>

## Technical Skills

- IaaS/PaaS: AWS, Azure, Bluemix, OpenShift, CloudAtCost
- Virtualization/Container: KVM, RHEV, VMware ESXi, Docker
- Web/Middleware Servers : WebSphere Application Server, WebSphere Commerce, WebLogic, Tomcat, Geronimo, haproxy, squid, IHS, Apache httpd, Node.js & npm
- DevOps Tools: JIRA, Subversion, Artifactory, Maven, sbt, Sonar, Jenkins, Rundeck, GitHub Enterprise
- Development : Java, C/C++, HTML, CSS, CGI, SSI, JavaScript, PHP, VB, x86 Assembler, Pascal, Scheme, processing, perl, tcsh, bash, Python, Go
- Database : IBM DB2, Oracle, MySQL, Postgres
- OS : Linux (RHEL/CentOS/Ubuntu/Mint), FreeBSD, BSDi, Solaris, Windows, OS/2, DOS

## Education

2003 - 2006	University of Liverpool, UK	Post Graduate Diploma, IT
1995 - 1998	Ryerson Polytechnic University	B.Sc. Applied Computer Science
1994 - 1995	University of Western Ontario	Completed 1st year B.Science

## Certifications, Awards & Patent

- 2013, Dec. [IBM Certified System Administrator WebSphere Application Server V8.0](#)
- 2012, May. Duplicate Document Detector, United States Patent [US8,185,459,B2](#)
- 2011, Jun. Red Hat Certified System Administrator (RHCSA) ID [111-106-977](#)
- 1998, Nov. 1998 ACM North America East Central Regional Programming Contest - 28 / 92
- 1997, Nov. 1997 ACM North America East Central Regional Programming Contest - 46 / 87
- 1997, Nov. 1997 Ryerson Polytechnic University Computer Programming Contest - 2 / 14
- 1996, Oct. 1996 ACM North America East Central Regional Programming Contest - 15 / 63
- 1994, Jun. Scarborough Senior Mathematics League Champions

## Work Experiences

**Element Fleet, Sparks, MD., USA (Remote), <http://www.elementfleet.com/>**

### Senior Systems Engineer, 2017 June - Present, Permanent

- Setup/Manage DataStax5, Apache Spark2, Hadoop HDFS clusters.
- Created jupyterhub docker image with pyspark & scala kernels to DataStax Spark and Apache Spark2 clusters for Machine Learning development.
- Created on-premise docker registry with internal S3.
- Developed iphone app to collect Bluetooth OBD device with Swift.
- Developed custom oauth2 plugin for Kong API Gateway with Lua.
- Integrated various services with supervisord on CentOS.
- Created Jenkins jobs / assisted in development for Akka scala and Spring Cloud Microservices REST-API services.

### Senior Systems Engineer, 2015 September - Present, Permanent

- Built 450+ of virtual (VMWare ESXi) and physical servers with RHEL7 for GE integration project.
- Implemented cloud storage solutions with Cloudian S3 (AWS cli, goofys, s3cmd).
- Automated system administration & maintenance jobs with Ansible, bash, python scripts.
- Automated RHEL6/7 installation with kickstart tuned for different application requirements.
- Administrated RedHat Satellite Server.
- Installed & configured Kafka, Zookeeper, Talend, Cassandra, Business Objects, HP ALM.
- Configured various infrastructure services on Linux with httpd, postfix, bind, smokeping, mrtg.

- Created & implemented enterprise Linux security standard..
- Installed, configured & administrated DevOps tools: GitHub Enterprise, Artifactory, Sonar, Jenkins, Rundeck.

**IBM Canada, Markham, ON. (Remote), <http://www.ibm.com/>**

**WebSphere IT Specialist, 2011 September – 2015 September, Permanent**

- Worked with high profile clients on mission critical system issues world wide.
- Supported all Canadian clients on WebSphere Application Server products, specialized in WebSphere Commerce, IHS and Linux platform issues.
- Administrator of VMWare ESXi environment for test virtual machines consist of: RHEL, SUSE, Solaris, Windows 2008 and DataPower.

**Symcor Inc., Toronto, ON., <http://www.symcor.com/>**

**System Architect, High Performance Delivery, 2007 March – 2011 September, Permanent**

- Worked directly under CTO to resolve any critical on-demand technical tasks.
- POC corp wide physical servers to virtual environment with RHEV.
- Worked on Duplicate Document engine using NVIDIA CUDA - US Patent [US8,185,459,B2](#)
- Ported open source C/C++ projects - tesseract-ocr, OCRopus projects from Linux to Solaris.
- Ported in-house C/C++ applications from Solaris to Linux.
- Architected & Implemented best practice in development cycle using open source tools: JIRA, Eclipse, USVN, Subversion, Artifactory, Maven, Sonar.
- Trained development teams adapting new open source tools.
- Led development teams to resolve production faulty and performance issues.

**Senior Technical Analyst / Team Lead, 2003 September – 2007 March, Permanent**

- Researched and led in the development of unit test framework.
- Contributed solutions and ideas for several core projects.
- Guided junior and intermediate developers to solve difficult problems.
- Implemented cheque fraud prevention system with J2EE.
- Assisted configuration management team to maintain, build and deployment.
- Assisted application support/implementation groups for application server issues.
- Led staffs in administrating mission critical production servers.
- Launched various web implementations for major Canadian financial clients.
- Implemented high availability and disaster recovery platform.
- Improved web server securities by implementing solutions for potential breaches.
- Solved complex technical issues during implementations and production support.
- Coordinated implementation between multiple groups and clients.

**Fairlane Group, Concord, ON.**

**IT Specialist, 2003 February – 2003 September, Permanent**

- Maintained online shopping database.
- Developed Web applications in HTML, JavaScript, Perl, JSP.
- Upgraded encryption software for order system & provided training to staffs.
- Administrated Windows NT and MS Exchange server.
- Retouched and created graphics/photos with Adobe Photoshop.

**Tritech Automation Corporation, Mississauga, ON., <http://www.3tec.com/>**

**System Integration Specialist, 2002 June – 2003 February, Contract**

- Integrated database and framework: Postgres, jdbforms.
- Integrated servers: MySQL, FreeBSD, Apache, Tomcat, jdbforms, mail applications.
- Troubleshooted hardware issues on servers at data center.
- Administrated application servers and web servers.

**FundSERV Inc., Toronto, ON., <http://www.fundserv.com/>**

**Software Engineer, 1999 February – 2002 June, Permanent**

- Designed web applications with PKI authentication by Entrust client integration.
- Implemented a XML messaging generator in JSP.
- Ported a web based electronic order & file transfer system for Canadian mutual fund companies and dealers with Java Servlet/JDBC.
- Maintained web portion of PL/SQL code for clear & settlement and order transactions.
- Designed/Implemented API for a N-tier inquiry distributed system through TCP/IP network in

- Java with (Talarian)TIBCO SmartSockets.
- Created various authentication and report generating utilities through LDAP attributes lookup for Public Key Infrastructure project site.
- Implemented load-balancers for Apache JServ and WebLogic.
- Developed automated testing scripts.
- Recruited core developers with technical interviews.

**Ryerson Polytechnic University, Toronto, ON., <http://www.ryerson.ca/>**

**Computer Science Teaching Assistant, 1998 January - 1998 December**

CPS 109: Computer Science I - Java . CPS 125: Digital Computation and Programming

- Ran tutorial sessions for students in Computer Science and Electrical Engineering.
- Graded labs, tests and exams for students.
- Provided assistance to students in C and Java on topics of: language fundamentals, standard I/O, data structure concepts and algorithms.

**BrainChild Education, Markham, ON.**

**Software Developer / System Analyst, 1991 July - 1998 August, Contract**

- Developed scripting language for building computer assisted learning software.
- Designed/implemented a 2D graphics/sound/animation engine.
- Created a package of copy-protection utilities to prevent software piracy.
- Ported DOS based educational software to Windows platform using Visual Basic.
- Wrote graphical front-end Java applets and utilities.
- Created computer graphics and animation in support to the educational package.

**SkyInternet International Inc., North York, ON.**

**Web Developer, 1995 December – 1996 December, Contract**

- Built client web sites with HTML and JavaScript.
- Developed customized product search engine with CGI in Unix shell scripts & C.
- BSDi/FreeBSD Unix System installation & Configuration.
- Created web graphics and retouched photos with Adobe Photoshop.

**Other Projects:**

- 2Q Video - technical consultant for retail video rental site.
- Pro Tax Realty Advisors Inc. - customized office database tools development in VB.
- <http://www.oaa.on.ca> - Web Application migration from FreeBSD to Linux with MySQL.
- IBM Canada, EduQuest – OS WAN for all schools in Etobicoke Board of Education.
- [WildLife Tetris](#) featured in [archive.org](#)
- [libmode13h](#) – x86 320x200 256c graphics & game library written in C.
- <http://racestats.felixwu.com> – marathon race results stats analyzer written in PHP & YUI.
- <http://www.felixwu.com> – HTML5, PHP, Grav, Node.js, React
- Various open source projects contribution please refer to [GitHub](#).

## Affiliation & Activities & Hobbies

- 2010, Marathon Maniacs Official Member ID [3328](#)
- 1996 – 1998, Ryerson Polytechnic University, Computer Science Programming Club, Member/ Selected Contestant
- 1990 – 1994, Lester B. Pearson Collegiate Institute, Pearson Network Computing Club, Network Support Manager
- Hobbies - arts & crafts, amphibians & reptiles, insects, coding, nature photography, reading, road & trail running, hiking, anime, video games

References will be available upon request, recommendations available on [linkedin](#)