Brent Michalski

Senior iOS Software Engineer

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Summary

Experienced software engineer with an extensive and diverse work history - from maintaining legacy systems to developing the iOS App Store for the Intelligence Community, I have tackled any project that came my way.

I'm seeking a challenging position to utilize my extensive knowledge and passion for iOS mobile development where I can innovate and create cutting-edge solutions. I'm great with Swift and Objective-C and I can also tackle API development, REST, Perl, shell scripting, JavaScript, Linux/Unix systems, legacy systems, web development, and database programming.

I love to "tinker" with 3D printing and various other electronics such as Arduino and Raspberry Pi so I can continue to push the boundaries of the latest technology and never stop learning.

Work experience

Senior Embedded Software Engineer
03/2019 - Present

Boeing

Senior engineer on the builds team responsible for developing, configuring and deploying a build environment for software going into fighter aircraft.

Senior iOS Software Engineer
12/2017 - 11/2018

PAR Government

Senior Software Engineer on the iOS App called "iTAK". iTAK is a mission planning, situational awareness and call for fires solution that uses off- the-shelf mobile computing devices and interoperates with operational networks (tactical radios, mesh net radios, WiFi and broadband).

- Transformed government user requirements into reality by skillfully coding, testing, and deploying the new features.
- Coded, tested, and deployed an in-app chat system and also an in-app video tool that could take live feeds from drones and stream it to the user.
- Developed new capabilities for a proprietary iOS mapping app which utilized the ESRI mapping tools and frameworks.

Senior iOS Software Engineer
06/2018 - 09/2018

Intercard, Inc.

Hired part-time to "re-skin" their existing iService App.

Because they were very happy with my work for the app "re-skinning", they also had me do additional work to completely update their app.

- Converted the old, outdated code to Swift 4.x.
- Found and fixed a serious database bug that was in the original, deployed app.
- Made the source code more manageable for future maintenance.
- Got the app built and deployed into Apple's App Store.

Senior Mobile Software Engineer

06/2017 - 11/2017

Mastercard

- On the winning St. Louis team, out of 19, of the "Take Initiative 2017" coding challenge/hack-a-thon.
- Created automated unit and user interface tests for existing legacy code.
- Hunted down and eliminated several bugs that were in the existing, released, apps.
- Where prudent, converted existing Objective-C code into Swift 4 to ease future maintainability.
- Began development on a new, multi-purpose, iOS app for partner banks.

Senior Software Engineer

02/2010 - 04/2017

NJVC, LLC

- Lead the mobile development team for the GEOINT App Store.
- TS/SCI with polygraph cleared senior software engineer.
- Over 20 years of software development experience, including more than 8 years of mobile development experience. Xcode, Swift, Swift 3, Swift 4, and Objective-C.
- Some familiarity with Android as well as cross-platform tools such as Xamarin and Phonegap.
- Utilized Swift to implement a smaller, more maintainable GEOINT App Store for the iOS platform resulting in more than four times performance increase with a modern, intuitive user interface.
- Subject matter expert (SME) for "unpublished" Apple APIs associated with the iOS framework, which enabled me to quickly mitigate functionality degradation caused by mobile platform updates, such as iOS 8 and iOS 9 releases.
- Developed a REST-based Swift 3 API that all apps being submitted into the GEOINT App Store use. This REST API handles things like subscriptions, application launch tracking, and an app "kill switch" to be used when an app is no longer authorized for a user and/or a device.
- Was subcontracted by NJVC to Microsoft to perform an iOS application assessment for a large financial transaction company that had contracted Microsoft to perform the overall assessment.
- Managed all mobile devices for NJVC's west location.

"Brent's software engineering experience, passion for mobile development, and subject matter expertise make him a very valuable member of the GEOINT App Store team." -Charles Cloin, Director NJVC West

Languages and technologies that I have used while employed at NJVC: Swift, Objective-C, REST, ActiveX/Active Scripting, ServiceNow, Perl, PHP, shell scripting, JavaScript, AJAX, SQL, Java, Linux/Unix systems, C, legacy systems, web development, Apache web servers, IIS, and database design.

Senior Software Development Consultant

10/2009 - 11/2009

Talisen Technologies, Inc

- Led a team of consultants implementing critical new features in a large document management system.
- Drove the direction of the development team, resulting in a very satisfied customer.
- My team received an "Excellence Award" and I received personal recognition from the customer.

Senior Developer

06/2004 - 08/2009

Monsanto

- Spearheaded the design, development, and implementation of Perl standards.
- Worked with end-users to analyze and prioritize software requirements to enable the creation of a multi-terabyte database of critical genetic data for research and development.
- Installed, maintained, and troubleshot the genetic database system.
- Optimized and revitalized an internal set of quality control tools.

Senior Software Developer

03/2003 - 04/2004

Washington University in St. Louis

- Administered, supported, and developed new software for Applied Biosystems DNA sequencing machines in a mixed Linux and Windows environment.
- Maintained Applied Biosystems DNA sequencing machines, which must be operational around the clock and have an overall uptime of greater than 99.99%.
- Integrated sequencing machines with an Oracle 9i database.

Senior Software Engineer

03/1999 - 03/2003

MasterCard International

- Responsible for high-profile internet, intranet, and extranet projects.
- Developed the first MasterCard ATM locator.
- Transitioned key client/server applications to the web utilizing Perl, CGI, HTML: Mason, and mod_ perl.
- Developed key pieces of an internal business development application.

Team Internet Developer

12/1998 - 03/1999

Southwestern Bell Telecom

- Internet developer for corporate web sites.
- Responsible for taking design documents and translating them into live web pages.
- Developed secure, efficient CGI applications to process high traffic web site forms.
- Automated web page validation which resulted in hundreds of saved man-hours.
- Responsible for creating web pages on very high-profile company web sites.

Principal Specialist, It Systems Consultant

09/1997 - 11/1998

Boeing

- Administered mission critical intranet and extranet sites as well as overhauled and redesigned a key document management system (DMS).
- Masterminded an innovative solution for managing documentation for the development of the Joint Helmet Mounted Cueing System (JHMCS).
- Replaced costly, proprietary DMS that was not able to meet all program requirements.
- Moved all JHMCS program documents to a secure web interface.

Computer Operator, Network Engineer

01/1986 - 09/1997

US Air Force

Was an information technology "jack of all trades". Whether it was networking, web development, or application development, I did it all.

- Installed and configured the first LAN in the 2148th Communications Squadron.
- Designed and created Ellsworth AFB's first web site.
- Completely overhauled the base libraries IT capabilities.
- Conceptualized, developed and implemented a custom on-line base computer ordering system that significantly improved customer satisfaction and provided customers with instant status of their orders.
- Received Air Force Achievement Medal for outstanding work on base library network installation.
- Received Air Force 5-Star Web Site Award for developing and maintaining a website for Ellsworth AFB.
- During my enlistment, I was also privileged to be a Crew Chief for the United States Air Force A-10A aircraft.

Education

MASTERS
2004 - 2006

University of Phoenix

Masters degree in Adult Education and Distance Learning

B.Sc
1994 - 1997

National American University

Bachelors degree in Computer Information Systems

Publications

Perl Database Programming
2002 - 2002

Wiley

Writing CGI Applications with Perl offers the most practical examples of applying Web programming techniques to real world problems I've seen yet. The text blends good CGI programming techniques, idiomatic Perl, and databases into many large and useful examples. Careful attention is paid to demonstrating solid, scalable code for production use. This is not your typical 'Hello, World' CGI programming book. --Clinton Pierce, Perl trainer and author of Teach Yourself Perl in 24 Hours

Writing CGI Applications with Perl
2001 - 2001

Addison-Wesley Professional

Writing CGI Applications with Perl offers the most practical examples of applying Web programming techniques to real world problems I've seen yet. The text blends good CGI programming techniques, idiomatic Perl, and databases into many large and useful examples. Careful attention is paid to demonstrating solid, scalable code for production use. This is not your typical 'Hello, World' CGI programming book. --Clinton Pierce, Perl trainer and author of Teach Yourself Perl in 24 Hours

Certifications

Security+ ce
2012 - 2021

CompTIA

Security+ ce (continuing education)

Security+
2010 - 2012

CompTIA

Security+ Certification (2008 edition)