

## Scott L. Williams - Silicon Valley

**Linked-In:** [www.linkedin.com/pub/scott-williams/0/62/7](http://www.linkedin.com/pub/scott-williams/0/62/7)

**GitHub:** <https://github.com/frisbeefish>

**Software Patents** (see linked in profile): [www.linkedin.com/pub/scott-williams/0/62/7](http://www.linkedin.com/pub/scott-williams/0/62/7)

**Design Portfolio:** <http://frisbeefish.com/portfolio2015/>

## Full-stack Developer, Architect, and Product Designer.

### PROFESSIONAL PROFILE

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**Senior Developer with “Full Stack” (UI + Back End) Skills** - I am both a back-end developer and a front-end UI/UX developer and designer. Over 10 years of “component based” UI development on the web using technologies such as: JavaScript, ReactJS, AngularJS, Polymer, ExtJS, Flash/ActionScript/Flex, HTML, CSS. Built some of the first Rich Internet Apps (RIAs) and Single Page Apps (SPAs) while working at Adobe. Two decades of experience building websites and web applications. Have worked with relational databases/SQL since the early 1990s.

**Server-Side Web App Development in Node.js, Python, PHP, Java, .Net** - Have recently been building web and mobile applications with back ends written in Node.js or Python/Flask. However I also has extensive experience with other languages such as: PHP, Java, C#, C/C++, and Salesforce/Apex. Have over two decades of data modeling, database programming, and large-system development experience.

**Complex, Distributed System Experience** - Have designed and coded great number of large systems comprised of many distributed nodes of hardware, software, and data. These systems have been built using compiled languages such as: C++, Java, .Net; using scripted/dynamic languages such as: JavaScript, Python, and PHP; and integrated with technologies/protocols such as: HTTP/HTTPS, REST, Web Services, FTP, TCP/IP, CORBA, RPC, and NetBIOS.

**Full Software Development Lifecycle** - Proven skills in the entire lifecycle of product development - from initial inception/concept phase into prototyping and eventually through to product construction and deployment. Can work in a fluid manner across various disciplines such as: design, prototyping, management/executive, forecasting/planning, market analysis, and engineering/development.

**Management and Senior/Principal Engineer Skills** - Experience in senior engineering and management roles within a number of well known companies, including: Netflix, Adobe, Intuit, HP, Microsoft, Bank of America, Hitachi, and Lockheed Martin/DARPA, as well as within mid-sized companies and a number startups. Have worked within a variety of industries, including: Consumer & Games, Entertainment, Banking, Energy, Health Care, Aerospace, Technical Services, and Human Resources.

## ACHIEVEMENTS

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- **Member of architecture team who built Bank of America's first website** - A member of the team of architects who helped Bank of America become the first bank with an online presence. Helped conceive of technical solutions for connecting web servers back to unix/linux and Tandem computers and eventually to "systems of record" residing on IBM mainframes. Used modern distributed, object-oriented software techniques, transaction processing monitors, and other middleware to connect disparate systems.
- **Brought several products from inception to production** - Conceived of and then built products for 3 startups that were later acquired. My roles at these startups were: lead product architect and developer (Decisive), product architect and CTO (CustomerSat.com), and most recently as VP of Product Design for Framehawk Inc. - which was acquired by Citrix in 2014.
- **Games, iOS applications, Web Sites, and Desktop Applications** - Designed and built/coded several products that are widely available over the internet. Some of them I created single-handedly. Others were built by teams that were under my direction or where I was a contributing member (such as at Netflix).
- **4 patents in software and design** - two of them as a senior architect within HP's web services division, one while working as a lead design prototyper within Adobe's design team, and one as CTO of a SaaS startup (CustomerSat.com) that was later acquired.
  - <http://www.google.com/patents/US20020120704>
  - <http://www.google.com/patents/US20040015564>
  - <http://www.google.com/patents/US20080082909>
  - <http://www.google.com/patents/US6892347>
- **Senior Member of HP's Web Services architecture team** - Served as a senior software scientist and architect at HP - where I was hired to help them influence the future of the web. While in this role, I invented a web services protocol known as *Web Services Conversation Language* and built HP's first graphical tooling for helping developers create web services clients and servers. I also served as an ambassador between our team and product groups within HP who wanted to incorporate web services into their offerings.

## PROFESSIONAL EXPERIENCE

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### 2014 - 2016 Consulting/Full Time

#### **UI Architect, Mobile/Web/Salesforce Applications - Service Max**

*Node.js, Python/Flask, html5, JavaScript, Polymer, Web Components, Salesforce, Apex, Scratch/Blockly*

Assess existing codebase of web, mobile, and Salesforce applications. Create a new set of technologies and languages and architecture that can be used to more efficiently build out mobile, web, and Salesforce applications.

#### **Senior Software Scientist, Web Developer - Twist Bioscience**

*Python/Flask/PostgreSQL, ReactJS, JavaScript, html5, Database design, Bioinformatics*

Web Development. Product design.

#### **Senior FullStack Developer (contract) - Saastr**

*Python/Flask/MySQL, html5 Web development, Database design, API integration*

All architecture, database design, 1/2 of product design, all front and back end coding, AWS dev ops.

#### **VP Product/Senior Web and Mobile Developer (contract) - Knack.it**

*Node.js, Python, html5, MySQL, PhoneGap, Mobile/Web development, Database design*

Project management, design, coding, architecture.

### 2012 - 2014 Framehawk

#### **VP Product Design/Senior Web and Mobile Developer - Framehawk (Acquired by Citrix)**

*Java, MySQL, PHP, Node.js, Python, QtPy, Angular.js, html5, css3, AWS, SAML Single-Sign On Protocol, data modeling, system architecture.*

Drove strategic shift within the company from using compiled languages (Java) for web applications to lighter-weight scripted languages (node.js, PHP, and Python). Designed and prototyped new products (iPad and Web). Designed and implemented data model for "Trust Cloud" product and built online web administration application for the cloud.

### 2006 - 2012 Consulting (Netflix, Intuit, Knack.it)

#### **User Experience Prototyper (contract) - Netflix**

*Flash, ActionScript, JavaScript, html, css2/css3*

Implement highly-interactive, "high fidelity", working prototypes of the Netflix website, video player for the web, Wii application, and PS3 application.

#### **Principal UI Architect/Acting VP of Engineering (contract) - HotShotMedia**

*SQL, Java, PHP, AWS, JavaScript, html5, CSS, Project Management.*

**Flash Game Designer & Developer (contract) - Knack.it**

*Flash, ActionScript, JavaScript, html, css*

**Flash Developer, Designer (contract) - MobJet/YouPublish.com**

*Flash, ActionScript, JavaScript, html, css*

**Project Manager - UI Team (contract) - Responsys**

*Java, Flash, Flex, ActionScript, JavaScript, html, css, ExtJS*

**Flash Game and Web Developer (contract) - PopJax.com**

*Java, Spring MVC, Flash, ActionScript, JavaScript, html, css*

**User Experience Prototyper - Intuit**

*Flash, ActionScript, JavaScript, html, css*

Part of the QuickBooks design team. Only member of the team who built high-fidelity prototypes of new designs as well as “concept car” designs for the future of Intuit on the web.

## **2004 - 2006 Adobe**

**Senior Software Architect - Adobe**

*Java, XML, html, JavaScript, css, Flash, Flex, ActionScript, MySQL*

Hired into Adobe Labs to work on a Adobe’s answer to Macromedia “Flash.” This product would allow web developers to build Rich Internet Applications (RIAs) using XForms, SVG, JavaScript, and declarative XML markup. I was responsible for creating the XML UI markup language (similar to MXML in Adobe Flex or Microsoft’s XAML). Presented to Adobe's CEO, CTO, and other high-level management providing demonstrations of some of the technologies our team had created. Later transitioned into the User Experience team within Adobe. Once Adobe and Macromedia merged, was hired onto an elite design within Adobe/Macromedia called XD. Was responsible for using Flex and Flash to bring a variety of interesting new product ideas to life.

## **2000 - 2004 HP**

**Senior Software Scientist/Architect - HP**

*Java, XML, TCP/IP, .Net/C#, CORBA, WebServices, JavaScript, html*

Joined as a software architect/scientist on the E-Speak team. HP wanted to leverage the enterprise software integration experience I had developed while an architect at Bank of America. E-Speak was an ambitious effort by HP to build the operating system for the Internet.

Developed conceptual prototypes of new techniques for connecting servers over the Internet. Worked strictly with XML, http(s), Java, Java/Swing, and emerging web services technologies. Authored 3 chapters of an HP book about web services, co-inventor of WSCL (web services conversation language), designed and programmed graphical user interface tools that were part of the HP web services "stack," member of the E-Speak architecture team, etc.

## **1997 - 2000 Consulting/Full Time (BofA, Lockheed Martin, CustomerSat.com)**

### **CTO and Lead Web Developer - CustomerSat.com (Acquired by Market Tools)**

*ASP.Net, JavaScript, SQL Server, Microsoft Access, html, JavaScript*

Originally hired by CustomerSat.com as a software consultant to help build online survey websites. I soon realized we could scale the business if we had an "engine" that would generate survey websites for customers (rather than us building them by hand).

Proposed (to our CEO) a new product idea that would do just this. Was then granted time and resources to build the product. This became the flagship software underpinning CustomerSat.com for over 10 years. CustomerSat was acquired in 2009 by Market Tools.

### **Enterprise Software Architect - Interactive Banking Division (contract) - Bank of America**

*Java, html, KivaSoft, LDAP, XML, SOAP, CORBA, DCOM, C++*

Brought my expertise in distributed, cross platform, systems integration to bear on a number of strategic initiatives. Core member of the team that build arguably the world's first banking website. Used CORBA and emerging web services technologies. Primarily worked in Java and UML

### **Senior CORBA Engineer (contract) - Lockheed Martin**

*Java, CORBA*

Worked as a senior distributed software architect and developer. I build a CORBA "trader service" - a lookup service that allowed distributed software agents to find one another.

## **1993 - 1997 Consulting/Full Time (Microsoft, McGraw Hill, Intel, PG&E)**

### **Project/Development Manager, Software Architect (contract) - McGraw Hill**

*SQL, SQL Server, C++, VisualBasic, Access*

Worked on 3 strategic projects as part of Microsoft's team of consultants. The first was the CTB/McGraw-Hill standardized test grading system. The second project was for McGraw-Hill School Systems. Development manager in charge of 15 developers who were building a complex, distributed database system for school districts. The final project I was involved with was an assessment of CTB/McGraw-Hill's existing software products. I was asked by the CEO of McGraw-Hill to serve as their Chief Information Officer.

### **Senior Software Developer (contract) - Intel, PG&E**

*SQL, SQL Server, C++, VisualBasic, Access*

### **Project Manager, Development Lead (fulltime & contract) - Microsoft**

*SQL, SQL Server, C++, VisualBasic, Access*

Worked both as an employee of Microsoft's consulting services division and then later on contract alongside Microsoft on a number of projects for McGraw Hill. Software architecture, database design, project management, and development management. On some projects, I worked as an individual contributor. While on others I ran teams of 3-15 engineers. Directly responsible for relationships between Microsoft and end customers.