John Garrison Strong

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CARREER SUMMARY:
- **Systems Programmer** for IBM, Microsoft and various startups
- **Professor of Computer Science** at 2 different Mexican universities
- Lead Storage and Buses (USB, IEEE1394, PCI) **Technical Writer** for the Microsoft WDK (Windows Driver Kit team)
- **Owner and Manager of a Nearshore Software Consultancy**
- **Excel VBA Consulting**
- **Microsoft Certified Visual Basic Professional**
- **SAS 8.2 Certified Programmer**
- **Salesforce Certified Developer**

LANGUAGES: Salesforce Apex, Force.com VisualForce Markup language, R-o-R (Ruby on Rails), C, C++, Java, JSP, JavaScript, PHP, Flash Action Script, Visual Basic, Excel & Access VBA, Expect, TCL, Prolog, Lisp, Yacc, Lex, Awk, Sed, Pascal, Fortran, Bourne Shell, Korn Shell, C Shell, Perl, SQL, XHTML, Assembly Language for Intel Processors.

TOOLS: MATLAB, SAS, R, Stata, Adobe Framemaker 10, Microsoft WDK XML document tools, Adobe Creative Suite: Photoshop, Dreamweaver, Abby Fine Reader, Visio, Excel (complex formulas, VBA, statistical analysis)

OPERATING SYSTEMS: Unix (BSD 4.2 & System V). Linux. Windows NT, 2000, XP and Server 2003.

EXPERIENCE:

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6/2013 to present: **YWAM International**, multiple locations

Wrote Apex trigger to automatically launch an approval process and send notification emails after creation of new custom project object. Currently assisting in design discussions with a view to deciding between using Communities, a Partner Portal or a simple SITEs implementation to allow external users to participate in the approval process.

1/2013 to 4/2013:   **Third Sector IT**, London, United Kingdom

Contributions of Apex code to data migration tool designed for non-profits that need to parse data from popular fund raising websites and import the parsed data into the Salesforce platform.

9/2010 to present   **Excel VBA (& macro) Consulting**

- Independent Excel VBA consulting, working for a wide variety of financial professionals and other Excel-literate customers who need help adding more sophisticated functionality to their applications or porting to new versions.. Some examples:
  - <u>Project</u>: analysis of credit compliance and speed of paydowns by state.
  - <u>Excel Programming Techniques</u>: VBA program that parses and analyses raw payment data to determine average time to loan paydown and percentages of aggregate paydowns by state. Reports in bar charts.
  - <u>Project</u>: calculation of wins, losses and yield-to-date, as well as daily and monthly leveraged, cumulative and max. cumulative returns, incorporating draw downs.
  - <u>Excel Programming Techniques</u>: macros and standard financial formulas for calculating present and future value
  - <u>Projects</u>: parsing, aggregation and reporting in pivot tables of patient emergency incident data
  - <u>Excel Programming Techniques</u>: used data source based on dynamic tables and complex table accesses (using multiple levels of indirection data-driven vlookup) to aggregate and report the data in pivot tables.
- Familiarity with Excel's statistical functions and data analysis tools, scatter plots, linear regressions

7/2006 to present: **EtherPros**, Orizaba, Veracruz, Mexico

Owner and manager of a software outsourcing consultancy in Mexico doing web application development in R-o-R (Ruby on Rails), Java, .NET, Adobe Flash, FLEX, ActionScript 3.0, Objective C and PHP. As business owner I have had the following management responsibilities:

- **International Team Coordination**: I ensure that the relationship between our Mexican, Argentine and Guatemalan programing teams works

smoothly and that teams are responsive to customer concerns, preferences and requests for information.

- **Talent Scouting**: I have read about 3,000 resumés in the last 3 years and interviewed hundreds of engineering candidates in both English and Spanish.
- **Deployment of Resources**: As a small consultancy, we must compete agressively in price while maintaining a rigorous Quality Assurance regime. This implies deploying more expensive resources in measured amounts at the beginning of any project and adding lower cost resource as soon as possible, without letting quality slide.
- **Management of Team Morale**: Our business model is carefully designed to provide maximum transparency and lead our engineering staff to think of themselves as major stakeholders in the enterprise.
- **Management of Quality Assurance**: Leadership role in deploying Agile methodologies and work disciplines that ensure quality while at the same time managing customer expectations. My role has been to steer our business process in a direction that will allow me to involve customers in the process and prevent nasty surprises. Thus perhaps my most important contribution to the management of our company has been to discern the implications for our process of the customer's desire to exert budgetary control. To this end, I have moved our process away from more traditional waterfall approaches that give the illusion of detailed budgetary control but lead to disappointments as unexpected requirements emerge.
- **Management of Customer & Internal Documentation**: I manage, edit and in most cases, personally author customer documentation. I am also the primary web-writer. I designed and created our website www.etherpros.com using standard HTML and CSS authoring tools like Dreamweaver. I have extensive experience with Visio and some experience programming in Flash and Action Script 3.

9/2010 to 12/2010   **Excel Experts & Jon Pearsons Ass.**, Milwaukee, Wisconsin

- Contract employment as Excel VBA consultant working with two different Excel consultancies. Did Exel VBA programming & problem solving and created complicated Excel Macros and pivot tables for Excel-literate customers who needed help adding more sophisticated functionality to their applications or porting to new versions.

7/96 to 6/06:   **Microsoft Corporation**, Redmond, Washington.

- Worked 8 years as a technical writer for the Windows Device Driver Kit (WDK, formerly the DDK) team preparing documentation for Windows device driver writers. Areas of responsibility included storage, USB, HID, PCI, 1394, SMB bus, Secure Digital (SD) Card and Smart Card device drivers. I am the author of approximately 85% of the USB documentation in the WDK, including the entire section on USB Power, all the material dealing with the USB generic parent driver and USB interface collections. I also wrote the section on Secure Digital Card devices, and about 50% of the

storage documentation, including all of the storage port driver documentation. In addition to my principal areas of responsibility, I made many small contributions to the general Kernel documentation, and did numerous bug fixes. I worked as a telecommuter for seven out of the eight years that I worked for the Microsoft WDK. You can see an example of my published technical writing at the following link: http://msdn.microsoft.com/en-us/library/ff540132.aspx.

- Worked 1 year as a developer on the SMS (BackOffice) team. Implemented software responsible for accessing machines across a LAN for purposes of acquiring various sorts of software and hardware configuration data then processing and passing that data on to other components of SMS. All development work done in C++ on Windows NT 4.0 and 3.5.1 platforms.
- Worked 1 year as software test engineer with the Visual Basic Test group. All programming done in Visual Basic 4, 5, and 6 (VB98), HTML, and Active Server Pages. I am certified in Visual Basic 4 (see Education section).

1/96 to 5/96:   **The Kernel Group**, Austin, Texas:

- Developed test cases for TKG's quality assurance tool ZeroFault. Test case work was done in Perl, Expect, TCL, Shell Scripts, and C on an AIX platform.

09/94 to 1/96:   **Instituto Tecnologico de Orizaba**, Orizaba, Veracruz, Mexico:

- Teaching Automata Theory, Compiler Theory, Discrete Mathematics, C and C++. Taught UNIX seminars on a LINUX platform.

04/92 to 5/93:   **Interactive Systems Corporation**, Austin, Texas:

- Writing quality assurance software to test IBM's Compartmented Mode Workstation product (CMW) using a test engine (TD) developed by Secureware.

01/92 to 04/92:   **Tandem Computers**, Austin, Texas:

- Did bug fixes for Tandem's Fault Tolerant UNIX operating system, including fixes of the TCP/IP code, the ethernet driver, commands and libraries, and administrative shell scripts.

03/91 to 01/92:   **Interactive Systems Corporation**, Austin, Texas:

- Contract Software Engineer reponsible for modifying AIX 3.2 commands and libraries to meet POSIX and X/OPEN (XPG/4) standards for adapting operating system software to non-English codesets.
- Bug fixes of AIX commands in the CMDSCAN, CMDMISC, and CMDSH components.

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03/88 to 03/91:   **I.B.M.**., Austin, Texas:

- Worked on the development of version 3.1 of IBM's RISC/6000 AIX Operating System. Ported the X Display Manager (xdm) from X11.3 to X11.4.
- Modification of AIX commands to make them conform to the Defense Intelligence Agency's C1 and B1 standards for secure operating systems. Considerable exposure to the theory of secure X window managers operating under the DIA's Compartmented Mode Workstation Standard (CMW). Represented IBM at TSIG (Trusted Systems Interoperability Group), in the Secure X windows special interest group.
- Design and coding of the parallel printer device driver for the RISC/6000.
- Extensions to a Prolog-based expert system used in security testing.
- Prototyping of an expert system in C++.
- Development of programming tools in Yacc and Lex.

08/86 to 02/88: **El Instituto Tecnologico de Estudios Superiores de Monterrey** (I.T.E.S.M.) Monterrey, Mexico, and **La Universidad de las Americas**, Puebla, Mexico.

- Gave classes in Automata Theory, Complexity Theory, Compiler Theory, Computer Networking, Systems Programming, Operating Systems, Natural Language Processing, and Computational Linguistics.
- Assisted in Speech Recognition Research.
- Led laboratory in advanced C programming and supervised student projects in Prolog & Lisp.

07/85 to 03/86:   **Eagle Technology**, San Antonio, Texas:

- Developed Courseware for the U.S. Airforce
- Data base developer and administrator of a small network of Sun-2 workstations.
- Coded a data base interface to an Interleaf Office Publishing System using Interleaf Ascii Format. Programming was in C on a BSD 4.2 platform.

03/84 to 07/85:   **John Strong Consulting** - a series of short term and part time assignments **during** and immediately following the period in which I was in graduate school:

- Jenkins Company, Austin, Texas: Wrote report generators in C for a UNIFY database on an NCR Tower.
- Advanced Business Communications, Dallas, Texas: Wrote quality assurance software for ABC's multiprocessor messaging operating system; Became acquainted with digital switching and telphony; Worked on the HP-64000; Programming in C on a System V platform.
- Lantech Inc., Dallas, Texas: Debugged and maintained software tools for Lantech's UNIX look-a-like operating system for the I.B.M. P.C., including the cross loader (8086 target machine), the cross linker, and the

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native assembler; Much work done on an INTEL in-circuit emulator, and in C on a System III UNIX platform.

01/83 to 03/84:   **University of Texas at Dallas**, Richardson, Texas:

- Teaching assistant in Computer Science and Mathematics Department. Assistant system administrator of a DEC VAX 11/780 running BSD 4.1 UNIX.

01/82 to 07/82:   **University of Texas at Austin**, **Applied Research Laboratories**, Austin, Texas:

- Sonar research. Programming in FORTRAN on a CDC Cyber to model acoustic noise due to water surface reverberation.

01/80 to 01/82:   **Pinson Associates**, Austin, Texas:

- Computer analysis of radar chaff clouds. Exposure to microwave circuitry.

EDUCATION:
- M. S. Computer Science, University of Texas at Dallas, Richardson, Texas (1984).
- B. A. Physics, cum laude, University of Tennessee at Knoxville, Tennessee (1980).
- Salesforce Certified Developer (April 2013)
- Brainbench certification in SAS 8.2 (October 9, 2012)
- Passed Certification Exam in Visual Basic 4.0 (May 1997)

SECURITY CLEARANCES:

- None at present. Secret clearance granted by D.I.S.C.O. in April, 1982 now expired.

SPECIAL SKILLS:

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- Speak fluent Spanish, some (very rusty) French, and some (very rusty) German. I also have some familiarity with Classical Greek, Latin, Hebrew, and Nahuatl (Aztec).