RUSSELL YOUNG
resume

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SUMMARY: Software development involving OOP, systems, communications, GUIs, graphics, compilers, diagnostics, porting, optimization, i18n and l10n, and more.

EXPERIENCE:
- Languages: C, Java, C++, Python, PHP, Lisp, Perl, Javascript, Assembler (MACRO-11), …
- Software: UNIX (Linux, Solaris, AIX, HP-UX), Windows, Emacs, X Window, Motif, HTML, Javascript, Swing, GTK, Clutter...
- Hardware: PC, HP Prism, IBM RS/6000, Sun SPARC, VAX, PDP-11

POSITIONS:
3/2009 – present: Senior Architect, Symbio (formerly Ethos Technologies)
  8/2012 – present: Mimosa Networks
    Designed and wrote API and REST interfaces to allow controlled 3rd-party access to device management functionality. Also wrote device SNMP agent.
  11/2010 – 6/2012: Omnicell
    Technical lead and project manager on localization project adding double-byte support to large (1M+ lines of code) client/server application on specialized hardware.
  1/2010 – 10/2010:
    implemented and troubleshot websites in PHP (Drupal and Smarty)
  3/2009 – 12/2009: Inkspin1
    Technical lead of 4-man project to implement TV-based Skype client. Designed low-level widgets using Clutter and GTK to build the GUI.

3/2008 – 2/2009: Senior Developer, Exoweb
    Part of team developing server applications with Python and Django using agile programming techniques

3/2006 – 1/2008: Senior Consultant, Catharon Productions
    Rehired by Catharon to develop their VDelta system. Wrote regular expression engine (http://young-0.com/regexp) and journaled indexed file system.

6/2004 – 3/2006: Build Manager, Siemens Mobile
  - Responsible for build process of device layer mobile phone software. Position involved isolating problems, delegating them to the appropriate coder, and maintaining code quality.
  - Senior member of Java porting and support group, maintained and enhanced support for Java ME

11/2001 – 4/2002: Consultant, Precomm
    Designed and wrote an interpreter in Java to apply queries written in Xquery to virtual XML databases (XML, SQL, flat file)

7/1999 – 6/2001 Senior Developer, Catharon Productions

Contributed to design and wrote major parts of a multiplatform web development language and environment, VDelta©. My parts included:

- VDelta compiler: Solely designed and wrote the program to compile VDelta source code.
- Language executor: completely reworked existing opcode interpreter to make it faster and more maintainable.
- Kernel internals: Suggested and maintained major design features, debugged and improved existing multiplatform kernel.
- Linux platform-specific kernel support: Wrote Linux platform drivers for services like graphics (raw X and VGA), file system services, communications

10/1996 – 5/1998: Principle Software Engineer, Unifi Communications Beijing

- Worked with central development group in the US on internal development projects
- Designed general gateways for connecting arbitrary fax networks to company's internal network
- Troubleshot and analyzed company's internal data network
- Managed Asian development group: 5 people in 3 countries

2/1992 – 2/1996: Senior Development Engineer, Concentra (formerly ICAD)

- Worked in development, maintenance, and platform support of Knowledge Based Engineering CAD system written in Lisp
- Ported the product to the HP-UX and Japanese Solaris platforms
- Integrated HOOPS as 3-D graphics driver
- Completed and then supported a remote access interface (similar to CORBA) for the product during its immediate post-development stage
- Supported Emacs as product working environment, and added OTS ATOK7 character input to Mule
- Provided 3rd level platform support for HP 700, Sun JLE, DEC (MIPS), HP 300 (M68000), and IBM RS/6000

6/1989 – 11/1991 Systems Engineer, IBM China

- Led team of 4 engineers providing technical support for the introduction of the RS/6000 in China
- Directly responsible for all issues with the system,including communications (TCP/IP), graphics (X-Window, GL, PHIGS), and UNIX system programming
- Provided support for sales and new customers by porting, benchmarking, installing, troubleshooting, and both internal and customer education

9/1983 – 9/1984: Consultant, Digital Equipment Corporation

- Wrote boot/diagnostic ROM for micro PDP-11
- Based on that project wrote company standard on the process of booting microcomputers

9/1982 – 5/1983: Consulting Programmer, Cynapse Inc.

Consulted for several companies. Projects included disk formatter/exerciser, controller diagnostics, and an object oriented VT100 screen manager

9/1980 – 5/1982: Programmer, Logica Inc. (originally Freyberg Systems)

- Debugged and enhanced publicly available C compiler for internal use
- Customized and improved to specs existing funds transfer system for a new bank

- Worked as part of 3-man team developing and installing funds transfer system for Swiss Bank Corporation

OPEN SOURCE

Airquality (2013)**:** http://young-0.com/airquality : Graphical display of Beijing PM 2.5 air quality index, maintaining historical data since January 2013

Lame Photo Organizer (2011): Update of ABCD (below), written in Java and Swing, has all the features of ABCD but is better designed and runs faster

IC (Interactive C) (2004): http://young-0.com/ic : Interpreted C-like scripting language with Java-style OO extensions, written in and tightly coupled to Java.

ABCD Organizer (A Better CD Organizer) (2003): Generic data organizer, including photos, videos, and documents. Written in Java and Swing, organizational data is kept in an XML database and uses IC-based templates to generate output as HTML code

SchoolSite (2002) (http://young-0.com/schoolsite): CMS written in PHP originally for my son's school, turning their static site into a dynamic one where teachers and students could design and update their own web pages using PHP plugins. The school (NSCL) used the software for several years with no problems, and I still use it for my personal site http://young-0.com.

ACADEMIC

9/9184 – 12/1987 University of Minnesota
MA in Mathematics with a minor in Computer Science

9/1976 – 6/1980 Princeton University
AB *cum laude* in Mathematics. Thesis topic was Classification of Arbitrary Non-compact 2-Manifolds.

PERSONAL: Resident of Beijing for almost 20 years, proficient in spoken and written Mandarin. Hobbies include playing and coaching Ultimate Frisbee, running, and literature.