

Gordon Tillman

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SUMMARY

Twenty years experience working with all aspects of computer software development. Constantly exploring new technologies and languages. Strong proponent of the support and development of open-source projects to help implement robust and powerful software solutions in academia, government, and business. Available for relocation.

PROFESSIONAL EXPERIENCE

Chief Technology Officer / Senior Developer, Kindle Publishing, Humble, TX

2006-2010

- Engineered and wrote infrastructure to migrate online applications from traditional data center to the Amazon cloud
- Engineered and wrote a high-performance online assessment system using state-of-the-art software technologies
- Engineered and wrote internal-operations applications, including: customer database, employee time reporting, and service monitoring and notification systems
- Implemented a project management system for tracking, bug-reporting, and collaboration
- Implemented application repository for managing builds accessed by multiple internal and remote developers
- Performed all system administration tasks on Unix, Linux, Mac OS X, and Windows platforms.
- Supervised and mentored members of my development team

Technologies: [ajax](#), [amazon web services](#), [apache](#), [c](#), [css](#), [cvs](#), [debian](#), [dhtml](#), [django](#), [eclipse](#), [hibernate](#), [html](#), [http](#), [https](#), [itext](#), [java](#), [javascript](#), [jdbc](#), [json](#), [komodo](#), [linux](#), [mac os x](#), [mercurial](#), [mysql](#), [netbeans](#), [postgresql](#), [python](#), [rdbms](#), [reportlab](#), [scripting](#), [shell](#), [sql](#), [sqlite](#), [ssl](#), [subversion](#), [sysadmin](#), [ubuntu](#), [unit testing](#), [unix](#), [vi/vim](#), [wiki](#), [windows](#), [xml](#), [yaml](#), [yui](#)

Senior Developer, American Guidance Services (now Pearson Assessment), Circle Pines, MN

2001-2006

- Engineered and wrote re-useable architecture for a suite of scoring and reporting applications
- Engineered and wrote an automatic software update mechanism
- Developed cross-platform scanning application for NCS and ScanTron scanners capable of scanning via LAN or Internet connection
- Designed and implemented state-wide client/server scoring and reporting application for Kentucky and New York
- Supervised and mentored members of my development team

Technologies: [ajax](#), [apache](#), [build automation](#), [c](#), [css](#), [cvs](#), [debian](#), [dhtml](#), [ext](#), [h2](#), [hibernate](#), [hsqldb](#), [html](#), [http](#), [https](#), [install anywhere](#), [itext](#), [java](#), [javascript](#), [jdbc](#), [jni](#), [jsp](#), [linux](#), [mac os x](#), [netbeans](#), [openlaszlo](#), [oracle](#), [rdbms](#), [revolution](#), [serial communications](#), [servlet](#), [shell](#), [sql](#), [sqlite](#), [ssl](#), [subversion](#), [swing](#), [sysadmin](#), [tcp/ip](#), [tomcat](#), [ubuntu](#), [udp](#), [unit testing](#), [unix](#), [wiki](#), [windows](#), [xml](#), [yui](#), [zeroconf](#)

Senior Developer, Lindy Enterprises, Humble, TX

1994-2001

- Designed and developed cross-platform installer capable of supporting an infinite number of registration/installation options
- Engineered and implemented cross-platform iteration of stand-alone applications and removed data platform-dependencies
- Designed and developed networked version of existing stand-alone applications
- Engineered and implemented the code framework utilized by 160 stand-alone desktop assessment applications for Macintosh and Windows
- Developed all internal software and performed all system administrative tasks
- Trained UI developers in the use of application editing tools

Technologies: [c](#), [c++](#), [carbon](#), [foxpro](#), [mac os](#), [mfc](#), [revolution](#), [sysadmin](#), [tcp/ip](#), [toolbox](#), [windows](#)

Consultant, Daugherty Systems, Chattanooga, TN

1993-1994

- Consultant on the Engineering Work Management System used at T.V.A. nuclear plants
- Duties included gathering requirements, writing specifications, implementing and testing software modifications, end-user training

Technologies: [c](#), [c++](#), [cvs](#), [functional specifications](#), [oci \(oracle call interface\)](#), [oracle](#), [perl](#), [rdbms](#), [scripting](#), [shell](#), [sql](#), [solaris](#), [technical specifications](#), [unit testing](#), [unix](#), [vi/vim](#)

Technician / Developer, Shell Oil, Houston, TX

1983-1993

- Initial responsibilities included the maintenance, troubleshooting, and repair of various computer systems and proprietary Shell hardware
- After earning degree from the University of Houston, new responsibilities included:
 - Configured VAX/VMS Supervisory Control And Data Acquisition system and programmable logic controllers for the environmental controls at Cray supercomputer facility
 - Designed and wrote infrastructure code for Shell's data center
 - Integrated parallel computing (NCube hypercube) capabilities into seismic processing work flow

Technologies: [assembly](#), [bsd](#), [c](#), [fortran](#), [ladder logic](#), [ncube](#), [oracle](#), [perl](#), [plc](#), [rdbms](#), [rexx](#), [sas](#), [scripting](#), [scada](#), [shell](#), [solaris](#), [unix](#), [vax/vms](#), [vi](#), [vm/cms](#), [x11](#)

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Fire Control Technician, Ballistic, US Navy

1976-1982

- Maintained all electronic systems in missile fire control aboard two Poseidon-class SSBN submarines
- Qualified in all non-nuclear watch stations
- Nuclear weapons security guard
- Hazardous waste disposal team
- Held a [Top Secret \(SIOP/ESI\)](#) security clearance

NOTABLE ACCOMPLISHMENTS

- 2008** Implemented migration from traditional data center to the Amazon Cloud allowing the application to scale instantly in response to load and reducing company's annual delivery costs by 54%.
- 2007** Leveraged a wide range of open-source technologies to eliminate commercial license fees, increase reliability, enhance product quality, and mitigate obsolescence.
- 2004** Scoring and reporting software developed by my team directly contributed to AGS Publishing assessment revenue increase of \$23 million (20%) in 2004 and lead to 2005 acquisition by the world's leading educational publisher, Pearson Education.
- 2001** Company's success with the software I wrote led to \$10 million acquisition by one of the country's leading publishers of special student population assessments and textbooks.
- 1996** Wrote conversion utility for porting Macintosh desktop applications to Windows resulting in a much broader customer base and highly increased sales.

EDUCATION

University of Houston, Houston, TX

Bachelor of Science (summa cum laude) - Mathematics major, Computer Science minor

MEMBER OF

- [Association for Computing Machinery \(ACM\)](#)
- [The Linux Foundation](#)

TECHNOLOGY SUMMARY

[ajax](#), [amazon web services](#), [apache](#), [assembly](#), [bsd](#), [build automation](#), [c](#), [c++](#), [carbon](#), [cms](#), [css](#), [cvs](#), [debian](#), [dhcp](#), [dhtml](#), [django](#), [dns](#), [eclipse](#), [ext](#), [fortran](#), [foxpro](#), [functional specifications](#), [google app engine](#), [h2](#), [hibernate](#), [hsqldb](#), [html](#), [http](#), [https](#), [install anywhere](#), [iphone](#), [itext](#), [java](#), [javascript](#), [jdbc](#), [jni](#), [json](#), [jsp](#), [jython](#), [komodo](#), [ladder logic](#), [linux](#), [mac os](#), [mac os x](#), [mercurial](#), [mfc](#), [mochikit](#), [mysql](#), [ncube](#), [netbeans](#), [objective-c](#), [oci \(oracle call interface\)](#), [openlaszlo](#), [oracle](#), [perl](#), [plc](#), [postgresql](#), [python](#), [rdbms](#), [reportlab](#), [rexx](#), [revolution](#), [sas](#), [scripting](#), [scada](#), [serial communications](#), [servlet](#), [shell](#), [solaris](#), [sql](#), [sqlite](#), [ssl](#), [subversion](#), [swing](#), [sysadmin](#), [tcp/ip](#), [technical specifications](#), [tomcat](#), [toolbox](#), [ubuntu](#), [udp](#), [unit testing](#), [unix](#), [vax/vms](#), [vi/vim](#), [vm/cms](#), [wiki](#), [windows](#), [x11](#), [xml](#), [yaml](#), [yui](#), [zeroconf](#)