

SEAN C. STARKEY

Colorado Springs, CO 80923

Mobile: 719-960-6408

Email: sean@seanstarkey.com

Website: <http://www.seanstarkey.com>

PDF Resume: <http://www.seanstarkey.com/SeanStarkeyResume.pdf>

Summary of Qualifications:

- Over 30 years of experience in application development, testing, troubleshooting, and implementation.
- Strong knowledge of technical specifications, workflow development, risk management, and QA.
- In-depth background analyzing business requirements and recommending appropriate technologies.
- Fluent understanding of project management and software development life cycle (SDLC).
- Expert in communication, interpersonal, and organizational skills.
- Proven background leading teams in stressful, deadline-oriented environments.

Technical Skills:

- Languages: C++ (UNIX, Windows, and OS X) [Expert], Java [Expert], C (UNIX, Windows, and OS X) [Expert], Objective C, C#, JavaScript, Lisp, Scripting (Perl, korn shell, expect, bourne shell, C-shell)
- Platforms: Linux [Expert], Windows, Mac OS X, iOS, Android
- Cloud Technologies: AWS, Docker, Chef, Kubernetes
- Web Servers: Tomcat, Jetty, Apache
- Web Technologies: J2EE, JSP, Web Services (SOAP, REST), XML, XSLT, Electron, React
- Databases/CMS: PostgreSQL, MySQL, Oracle, Nuxeo
- Source/Build: Git, Subversion, Perforce, ClearCase, CVS, Maven, Bamboo, Ant
- Applications: Jira, Eclipse, Visual Studio, Xcode, VMware

Other Qualifications:

- Github - <https://github.com/SeanStarkey>
- Stack Overflow - <https://stackoverflow.com/users/310068/starkey>

Professional Experience:

- Hypnos Entertainment November 2021 – June 2022
Senior Software Engineer for video game consulting company
 - C++ development with Unreal Engine
- Premiere Global Services (PGi) September 2012 to November 2021
R&D Software Engineer for international teleconference company.
 - Designed and implemented React web application for control of our conferences.
 - Designed and implemented Electron interface to our C/C++ softphone library on Windows and OS X using N-API.
 - Designed and implemented music streaming server using low level SIP and network libraries.
 - Designed and implemented softphone connection library in C/C++ on iOS, Android, OS X and Windows.
 - Designed and implemented application using the softphone connection library using Objective C, C, C++ and Java on iOS, Android, OS X and Windows.

- Setup and maintained build system for the softphone connection library to build for iOS, Android, OSX and Windows.
 - Created test program on Windows using C# and WFC.
 - Created Windows installation msi for test program using WiX.
 - Developed WebEx adapter for integration to our conferencing platform in C#.
- Jeppesen July 2010 to September 2012
 Software Engineer Consultant for large aviation company.
 - Involved in long term project using Agile methodologies.
 - Extensive use of Nuxeo Content Management System for data storage.
 - Use of Spring for extensive unit test coverage of code base.
 - Designed and implemented web services using SOAP.
 - Developed integration test frameworks using FitNesse and REST interfaces.
 - Designed and Setup Continuous Integration build system with Maven, Bamboo and Sonar.
 - Developed Web front end using SmartGWT.
 - Designed and implemented report system using XSLT and XSL-FO.
 - Developed specialized GUI components using Java Swing.
- ITT Systems March 2008 to January 2010
 Senior Software Engineer Lead for large defense contractor.
 - Developed processes and documentation for SENSOR project
 - Designed and implemented Communications system to transfer messages from legacy hardware at PARCS to hardware at Cheyenne Mountain
 - Installation of system at PARCS (Cavalier AFB, North Dakota)
 - Software developed on Solaris platform, including C++ executables and Java web pages using Apache Tomcat
 - Hardware design using proprietary hardware
 - Interface to communications hardware (Protogate)
- Configuresoft June 2006 to December 2007
 Software Engineer for a small software company.
 - Developed and maintained ECM UNIX/Linux system including, Red Hat Linux, SUSE Linux, Solaris, HP-UX and AIX.
 - Team lead for Core ECM product.
 - Trained offshore resources on ECM system.
- Agilent Technologies July 2004 to April 2006
 Software Engineer for large test equipment company.
 - Designed and Developed integration between NgN Analysis System (VoIP analyzer) and acceSS7 Analysis System (SS7 analyzer). Development included a Solaris C++ application and Java GUI modifications communicating with XPCOM using MySQL.
 - Developed SUA protocol analyzer for the NgN Analysis System.
- Lockheed Martin Management and Data Systems May 2003 to July 2004
 Software Engineer Staff for large defense contractor.
 - Developed a Java GUI command and control front end for a simulator of the Space Based Infrared System (SBIRS).
 - Taught internal Java and C++ classes to fellow employees.
 - Reviewed fellow employee's code according to internal process.
 - Established a source control system for the project using CVS.

- NeoCore October 2000 to March 2003
 Senior Software Engineer

 - Designed and developed XML database. Responsibilities included requirement definition, design, implementation and testing.
 - XML database server is written in C++ for Windows, Solaris and Linux platforms.
 - Many complex client tests for XML server were written in Java on Windows and Unix..
 - Designed and developed transactional system for XML database.
 - Designed and developed XA/distributed transaction interface for XML database using WebLogic and Tuxedo.
 - Designed and developed logging system for XML database.
 - Designed and developed portable thread library for XML database.
 - Used Rational tools for most of project's life cycle. Helped design and administer ClearCase system for project.

- Alcatel USA/IND June 1999 to September 2000
 Software Engineer

 - Designed and developed an FTP client/server for a remote access server.
 - Designed and developed a prototype for a DSL subscriber switching program.
 - Designed and developed a Java installation program for Alcatel's Intelligent Networking platform on Digital Unix.
 - Designed and developed korn shell scripts for the same Intelligent Networking platform.

- Metamor Worldwide Inc./COMSYS Inc. November 1996 to April 1999
 Software Engineer consulting at MCI WorldCom

 - Designed, developed, and implemented a phone call routing system written in C++ on Digital Unix platforms. The system converted relational database information (on Oracle) to object oriented database information (on ObjectStore) which was distributed to many nodes on a network.
 - Performed system training at the customer's site in England.
 - Staff Lead for Metamor - Responsibilities included new consultant orientation, ensure time sheets were submitted, and help build a team' environment.

- Applied Science and Technologies, Inc./ETO Inc. October 1994 to November 1996
 Digital Hardware/Software Engineer/Network Administrator

 - Designed digital hardware for a power amplifier using multiple 68HC16's communicating with a proprietary network. Tasks included researching and choosing a C compiler and development tools. Design work included initial specifications and schematic layout of proprietary hardware.
 - Maintained assembly software for existing product line. This product contained a 68HC11 and a 8051 microprocessor. Designed and implemented many special product derivatives from this product line. One product enhancement required the design of a communication protocol between multiple processors (six total).
 - Created project documentation and procedures to meet ISO9001 and FDA specifications.
 - Designed and programmed a C++ program to monitor and control RF amplifier's internals using serial interface.
 - Network Administrator for the company network using Netware 4.1 with MS-Windows 95 clients.

- Praxair, Inc. PCSI Inc. September 1991 to December 1993
 Santa Clara, California
 Development Engineer/Software Engineer for small industrial gas company

 - Responsibilities included development and implementation of system hardware and software design. The product used an embedded 80386 PC with software written in C.

- Designed and created specialized I/O boards designed and created for the product.
- Created a protocol converter/router using embedded PC written in C and 8086 assembly. Protocols included proprietary and multiple industry standards. This product had interfaces for the PC in MS Windows using Wonderware and on HP-UX workstation using FactoryLink.
- Performed on site installation of this system required Ethernet connections of Interface boxes to customer's network.
- Maintainer of Existing Gas Monitoring System. Software for system included C and assembler for Intel 8051. Designed and implemented many custom derivatives of the existing product.

Open Source Projects

- Neuros Database Manipulator (NDBM) 2003 to 2005
<http://neurobdbm.sourceforge.net/>
 - Wrote an open source database viewer in Java for the Neuros Audio Computer (device similar to an iPod).
 - Program was faster (and better) than the company supplied program.
 - Met with owner of the Neuros company.
- Universe 1996 to 2003
<http://universe.sourceforge.net/>
 - Wrote an open source game in Java.

Education:

- M.S. in Computer Engineering; Colorado Technical University, 1997
- B.S. in Electrical Engineering; Washington University in St. Louis, 1994
- B.S. in Computer Science; Washington University in St. Louis, 1991