

ERIC K. BIXBY

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EXPERIENCE

Senior Software Engineer / Systems Engineer

2016 to Present Northrop Grumman San Diego, CA

- Created Systems Analysis and Design documents for user stories (PBI).
- Contributed content to Interface Control Document (ICD) for a Network Management System (NMS).

Senior Software Engineer

2015 to 2016 Northrop Grumman San Diego, CA

- Worked on data service that utilized Data Dissemination Services (DDS) for communication.
- Contributed to integration of spectrum management product into Network Management System (NMS).

Senior Software Engineer

2015 to 2015 Northrop Grumman San Diego, CA

- Worked on generation of spectrum analysis charts using Xceed Chart .NET component.
- Implemented a test driver to simulate PR-100 spectrum analyzer.
- Automated the build using Bamboo.

Senior Software Engineer

2013 to 2015 Northrop Grumman San Diego, CA

- Developed multiple RESTful web services using Jersey running on Jetty.
- Developed a generic data store interface using Hibernate on H2.
- Contributed to development of a Network Management System (NMS) GUI using JavaFX.
- Worked with JTRS radios in the lab for software testing.
- Performed static code analysis with SonarQube and reviews with FishEye.
- Lead team (up to 9 other members) using Agile/Scrum methodology with JIRA.
- Worked on consolidation of multiple clients to a central key store for SSLv3 communication.

Senior Software Engineer

2012 to 2013 Northrop Grumman San Diego, CA

- Implemented enhanced GUI using GWT and GXT.
- Converted legacy GUI from JSP to GWT.
- Helped administer project server.
- Experience using Agile/Scrum methodology.

Senior Software Engineer / Build and Release Engineer

2012 to 2013 Northrop Grumman San Diego, CA

- Performed build and release engineering tasks.
- Maintained CDRL documentation (SVD and VDD) for each release of software.
- Worked with a Rimage 2000i disc publisher.
- Developed a tool, in C#, to display a consolidated dashboard of the Jenkins build status.
- Provide technical support to software developers using ClearCase.

Senior Software Engineer

2011 to 2012

Northrop Grumman

San Diego, CA

- Maintained and enhanced Java code using Google Web Toolkit (GWT) and SmartGWT to provide GUI to monitor and control devices onboard an unmanned aircraft.
- Worked with Mini-TCDL transceiver, JBoss, Spring, Hibernate, and RTI DDS in order to resolve defects.

Senior Software Engineer

2005 to 2011

Northrop Grumman

Carson, CA

- Developed an adapter, in Java and C++ that interfaced with a remote display system called Warfighter Machine Interface (WMI) using System of Systems Common Operating Environment (SOSCOE) for the communication path.
- Utilized publish-subscribe and client-server communication models in SOSCOE.
- Developed a subscription and data management system for data sent to and received from the WMI/GUI.
- Developed a code generator that generated code, which serialized data that was POJO with data classes used by WMI.
- Developed SWING code to simulate the behavior of WMI for rapid debugging and testing.
- Developed Firefox add-in (XUL) and a Web Service to prototype the expected behavior of WMI.
- Lead a team of two developers: coordinated tasks and created code metric reports.

Senior Software Engineer

2001 to 2005

Northrop Grumman

Carson, CA

- Developed GUI, as Java applet, for locally and remotely monitoring the status of network devices.
- Developed a template editor, in Java, for the creation of configuration files for Cisco routers and switches based on rules defined by a network engineer.
- Developed a notification GUI, using C and X-Designer, which was triggered by events from the Short Intrusion Detection System (IDS).
- Ported C code from Solaris x86 to Red Hat Linux.
- Developed a libDBI driver for Oracle 9i-Lite.
- Maintained code, in C and X-Designer, used for the planning, configuration, and monitoring of networking equipment used in the battlefield.
- Developed code, in C, that serialized/de-serialized data structures for persistence of planning data.

Member of Technical Staff

1997 to 2001

TRW (acquired by Northrop Grumman in 2002)

Carson, CA

- Project Webmaster and Systems Administrator.
- Developed code in Perl for web-based collaboration experiment.
- Developed context-sensitive help system in C calling Netscape in an improvised kiosk-mode.
- Maintained an Access database for defect tracking and supported Configuration Control Board (CCB) meetings.

Technician

1995 to 1997

ASL Consulting Engineers (acquired by Tetra Tech in 1999)

Irvine, CA

- Performed daily backups and restore requests on a Sparc workstation.
- Installed/configured/supported CAD workstations running AutoCAD and Microstation on MS-DOS.
- Installed/configured/supported administrative computers running Word Perfect on MS-DOS and Microsoft Word on Windows 3.1 and 95.
- Supported other sites besides Irvine: Pasadena, Palm Springs, San Diego, and San Bernardino.
- Operated a Bulletin Board System (BBS) for inter-office and external file transfers.
- Developed program in BASIC to record and report Océ blueprint copier usage; collected data via serial port.
- Developed code to control, record and report Océ plotter and HP printer usage; using VisualBasic 2.0 and a

Microstation plug-in in C.

SKILLS

- **Languages:** Java, C#, C/C++, Python, BASH, Perl, PHP, XML, HTML, JavaScript, PL/SQL, VisualBasic, QuickBasic, GW-Basic.
- **GUI Development:** JavaFX, .NET, Xceed Chart, SWING, GWT, SmartGWT, GXT, Qt, X-Designer, XRT Widgets, Motif, Mozilla XUL, Tcl/Tk.
- **Databases:** Hibernate, MS-SQL, H2, MySQL, IBM DB2, Oracle 9i Lite, PostgreSQL, Mini-SQL, Access.
- **Platforms:** Microsoft Windows, Mac OS-X, Linux, Sun Solaris.
- **Version Control:** git, Subversion/SVN, ClearCase, CVS, SCCS.
- **Defect Tracking:** JIRA, ClearQuest.
- **Continuous Integration:** Jenkins, Bamboo, CruiseControl.
- **Tools:** Xcode, Eclipse, Netbeans, SonarQube, FishEye, Microsoft Visual Studio, Maven, Ant, JUnit, Clover, Rational Rose, Microsoft Office.

EDUCATION

Bachelor of Science in Computer Information Systems in Programming/Software Development
Bellevue University, Bellevue, NE

Associate of Science in Computer Science
Cypress College, Cypress, CA