Joel York

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SENIOR SOFTWARE ENGINEER

Software engineer with many years of experience as a full life-cycle developer in Linux, Windows, and Mac environments. Extended expertise with data structures, algorithms, and applied best practices in real world situations.

TECHNICAL SKILLS

Computer Languages:	C++17, Golang, Java, Perl, C#.NET, C, SQL, PHP, Shell
Development Tools:	Jenkins, Git, Docker, Eclipse, Perforce, Splunk, Jira
Databases:	MySQL, Microsoft SQL Server, Microsoft Access
Network Protocols:	HTTP, TCP/IP, DNS, WebSocket, Winsock, FTP, SMTP, POP3
Operating Systems:	Linux, Windows, Android, Mac OS X, Unix

PROFESSIONAL SYNOPSIS

Cisco, Software Engineer, May 2021 to November 2021

Adapted Golang open source DNS project to serve as load balancing, geographically aware DNS resolver for Cisco's Secure Web Gateway.

Created tools for DNS resolver for operational support using Jenkins, Python and scripts.

Designed and developed dashboard to display DNS resolver status and operational information for support team to identify issues and drill down into specific problems.

Participated in agile development process via standup meetings, code reviews, grooming and planning sessions

SecureTrust, Senior Software Engineer, November 2019 to April 2021

Developed and maintained application to conform to PCI DSS (payment card industry data security standards) primarily in C++17.

Lead an effort to conform to Apple's requirements for MacOS security applications, including signing and notarization.

Participated in agile development process via daily standup meetings, code reviews, weekly grooming and planning sessions.

Trading Technologies Intl, Software Engineer, February 2019 to October 2019

Created service in C++ to connect to a Bitcoin exchange and download pricing data using Websockets.

Prioritized login requests to get users connected quickly even in the presence of high network traffic.

Modified C++14 high availability, low latency service to continue to function in the event of administrative server failure.

Participated in agile development process via daily standup meetings, code reviews, weekly grooming and planning sessions.

Groupon, Software Engineer, April 2018 to February 2019

Refactored Golang service hosted in Docker container to move from handling single user authorizations to servers to authorization groups of users to groups of hosts.

Created process to get proper approval for changes that impact hosts handling SOX/GDPR sensitive data and create an audit trail to ensure policy compliance.

Developed tests as new features were developed to function as part of our CI process.

Added new forms, updated, and maintained Ruby on Rails applications running in a Docker container that provided an interface to the Golang service.

Participated in agile development process via daily standup meetings, code reviews, bi-weekly grooming and planning sessions, and retrospectives.

FactSet Research Systems, Senior Software Engineer, July 2011 to March 2018

Refactored C++11 data access code to yield 10-30% speed improvements in client-side reporting on Linux.

Designed and developed ETL tools in Perl, C++, and Shell on Linux platform to import data feeds.

Designed and developed C++ API for accessing metadata and relationships of financial debt instruments.

Assisted in company-wide modernization effort to migrate from legacy C++/ VMS system to Linux with C++11.

Performed maintenance as needed as part of on call duty

The Oklahoman, Interactive Programmer Senior, May 2009 to June 2011

Developed Android application to display newspaper content and play video for subscribers. Deployed to the Android Market.

Developed Java program to send updated documents and expire old document in search system using MySQL database system.

NCI Building Systems, L.P., Software Engineer, March 2009 to April 2009

Developed and tested changes to builder system reports in Visual Studio with C++ and Microsoft Access.

Navigon, Inc., Software Engineer, April 2007 to November 2008

Designed, developed, and tested program to test functionality of GPS navigation software in C++.

Graduate School of Business at University of Chicago, Programmer / Analyst, March 2003 to April 2007

Designed and developed administrative tools and applications.

Motorola, Software Engineer, April 1999 to November 2002

Designed, implemented, and tested a parser for ASN.1 messages from the cell network using C and C++.

Anyware Technology, Inc., Software Engineer, January 1998 to March 1999

Gathered requirements, designed protocols and architecture, and developed the code for secure text chat, email and file transfer using Java

Failsafe Computer Systems, Inc., Staff Analyst, May 1994 to December 1997

Created project architecture for large project to convert legacy terminal-based application to Windows GUI application. All server access used remote procedure call to access the services on legacy mini-computer system.

EDUCATION

Bachelor of Science in Computer Science   Illinois Institute of Technology