

Principal Abilities:

Principal level software engineer with advanced knowledge and experience of several object oriented programming languages including C/C++/STL, Python , ObjectPascal(Delphi) and C# . API level development experience on both Unix/Linux and Windows platforms. Experienced with several accepted Open Source implementations (llvm/clang ,kafka, zookeeper, tornado, django/django REST Api,thrift,mongodb,flask,vagrant ,elasticsearch, apache). Wide experience in porting Open Source implementations to production modules. Concentration in email/messaging protocols and APIs and distributed and concurrent programming (SSL ,FIX ,Grid computing ,OpenMP,publish/subscribe). Knowledgeable of machine learning and scientific computing domains.

Experience:

Rockwell-Collins Consulting Software Engineer, Annapolis , MD April 2015 to August 2015.

Design and implementation of database wrapper facade and state machine for ground aviation systems. C++ function library for Django wrapped for Python. Python process wrappers for Postgres automation. Postgres utils using pyscopg2 driver and Python3. Django/Django REST Framework.

Chromatic Universe Independent Software Engineer, Baltimore, MD March 2012 to October 2014

Design and Development of proprietary implementation of the IMAP(Internet Mail Application Protocol-RFC 3501 , 5423,5465,5703,6203) using virtual file system , Graph Database and Data Distribution Service(DDS,Object Management Group) resources. Also design and implementation of Natural Language Processing, Bayesian and Data Mining modules for implementation of imap extensions. C\C++,Python,STL(Standard Template Library), Adaptive Communication Environment , OpenDDS , TAO , Django , NLTK , numpy , matplotlib , scikit-learn , boost , rabbitmq , Google Analytics , Antlr.

UPS , Inc. , Consulting Software Engineer, Timonium , MD June 2011 to March 2012

Refactoring and redesign for UPS's flagship desktop shipping software(C++,SqlServer,XML,C#).

Access Data , Inc. Senior Software Engineer, Glenwood, MD October 2010 to April 2011

Design and implementation of network forensic, protocol reconstruction, and eDiscovery product features.C++,Python,Silverlight,web sockets,Linux.

APS Healthcare , Inc. Consulting Software Engineer, Baltimore,MD February 2010 to October 2010

Developed , designed and maintained healthcare content management system and server side data warehouse.Python,Zope,C++,Sql Server, wsdl, xml-rpc,Sybase,MySQL.

Doubletake Software , Inc. Senior Software Engineer, Indianapolis, IN March 2009 to May 2009

Maintenance of proprietary core engine for enterprise replication product(C++,STL,WIN32).

Overtone Software, Inc. Consulting Principal Software Engineer, Rockville, MD April 2004 to February 2009

Responsible for high level and functional design and core implementation of an enterprise scale remote storage, archiving and natural language search product for Microsoft Exchange. C++, Python,Windows/Linux. Technical design lead for a team of seven developers(Belarus and India). Established development operations environment and cross platform specifications.

Inter-tel Corporation Inc. Consulting Senior Software Engineer Frederick ,MD November 2002 to October 2003

Designed and implemented complete revision and modification of the baseline UW-IMAP (University of Washington) Internet Message Access Protocol (IMAP).(C++/STL,WIN32 API, MAPI/Exchange, Windows2000,Rational Rose.

PEC Solutions , Consulting Senior Software Engineer, Fairfax, VA January 2002 to June 2002

Implemented a server side proxy /dispatcher solution for the transmission of requests and data to and from the FBI's IAFIS(Integrated Automated Fingerprint Identification System) server interface.C++,COM,WIN32 API,XML,Oracle,PL/SQL,MAPI , Exchange Server SDK).

Aether Systems,Inc. Senior Software Engineer, Owings Mills , Md April 1999 to July 2001

Ported proprietary wireless messaging protocol client transport implementation (Aether Intelligent Messaging-CDPD,GSM) from Windows to Linux for a Sun Microsystems, Inc. worldwide wireless field service application. Created configuration and build distributions(automake) for transport. as well as code library for device provisioning. Team lead for development of wireless stack for Sun Microsystems remote devices.(C,C++, Python, NT, Unix/Linux, Adaptive Communication Environment.

Marotz,Inc. Consulting Senior Software Engineer, Alexandria,Va. October 1998 to April 1999

Designed and coded client and server pieces of a component of the U.S. Navy's ORCAS vessel supply system. ObjectPascal (Delphi), Oracle (PL/SQL, Pro C), C++, Solaris,NT.

J&H Marsh McLennan Consulting Senior Software Engineer, New York,NY June 1998 to Oct. 1998

Responsible for design and coding of server side routines and functions in support of an international insurance brokerage application. Transaction Process Monitor(BEA Tuxedo) ,C,C++,Sybase.

IBM Global Services Consulting Senior Software Engineer for Chase Manhattan Bank New York , NY November 1997 to June 1998

Developed prototype remote trading floor application for the Chase Manhattan Bank as a consultant for IBM's Wall Street Capital Markets Division.C++, Unix/AIX, Unix/Solaris,RogueWave,Adaptive Communication Environment.

Legg Mason,Inc Consulting Senior Software Engineer, Baltimore,MD July , 1997 to October , 1997

Contracted to develop and implement an automated customer notification system triggered by events from real time trading feeds.C, C++, Visual Basic, Sybase/DBLib/CTLib, Unix/HP, NT.

The Johns Hopkins Medical Institutions Senior Programmer Analyst , Baltimore,MD August 1992 to July 1997

Designed and coded client and server sides of a hospital wide incident reporting database. ObjectPascal (Delphi), Oracle, Unix/SCO, NT. Programmed campus wide electronic security access control system. Hardware and software interfacing(C, Pascal, Assembler, VAX/VMS). Designed and coded server and client components of hospital general ledger accounting database and financial reporting system.C++, Powerbuilder, Oracle (PL/SQL, Pro C), C++, NT,Adaptive Communication Environment.

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Military: United States Naval Security Group Detachment(NSA) ,
United States Navy Cryptologic Technician Interpretive (CTI)-Arabic/Spanish

Education: Johns Hopkins University, 1980-82