Lisa Freeburg

Columbia, MD - Email me on Indeed: indeed.com/r/Lisa-Freeburg/cdef1561a6e0f38a

Authorized to work in the US for any employer

WORK EXPERIENCE

Software Engineer

Varen Technologies, Inc - Columbia, MD - December 2010 to Present

• Defined requirements for, designed, implemented, tested, deployed, and supported a suite of high-speed high-volume highly-available data processing applications
• Improved time to market, robustness, and consistency by developing a library and programming API for a set of core functions previously implemented locally in separate applications
• Improved robustness and sustainability of fielded legacy applications
• Created simpler and more elegant alternatives to existing complicated designs and implementations while supporting the same requirements
• Worked in a demanding on-site environment that required quick learning of legacy systems and new techniques, interfacing with a large set of constantly changing systems components, collaborating with other organizations, and independently completing large, vaguely-defined tasks

Software Engineer

The Johns Hopkins University Applied Physics Laboratory - Laurel, MD - March 2001 to December 2010

Laurel MD. March 2001 - December 2010.
• Implemented a scenario description language and code generator to automatically build the C++, C, MATLAB, XML, and HTML required to interface with a modeling and simulation framework
• Assisted with system-level requirements definition for the integration of assets into the BMDS
• Participated in a high-visibility MDA study of time-stepped vs. event-driven simulations for training, performance assessment, and concept definition
• Led the framework design and development effort for a component-based generic radar M&S architecture
• Led the MDA AN/TPY-2 team during 2007 BMDS wargames and exercises. Directed a multi-organizational team responsible for defining event and module requirements, providing SME support, performing model V&V, representing the sponsor at planning sessions, and providing on-site event support. Received a letter of commendation from the sponsor
• Designed and developed an extensible radar simulation testbed framework and a AN/TPY-2 model integrated into the framework. Used the testbed to perform independent analyses of algorithms developed by the IPT and presented my findings at on-site IPT meetings
• Designed and implemented a time-sensitive target cueing subsystem for a real-time distributed mission planner

Software Engineer

Southwest Research Institute - San Antonio, TX - January 1996 to March 2001

• Provided technical leadership and project management for a distributed real-time synthetic battlefield simulation
• Designed and implemented a 2D mapping subsystem and major portions of the infrastructure of a distributed application used to perform mission analysis for exercises and real-world operations. Worked at the customer site training and supporting users, troubleshooting networks, gathering operational requirements, and providing operational support

• Supported a team responsible for maintaining and enhancing a mission analysis system. Taught a week-long training course to users overseas

EDUCATION

Master of Science in Computer Science in Computer Science
The Johns Hopkins University
2005

Bachelor of Science in Computer Science in Computer Science
University of Iowa
1995

SKILLS

C+ (9 years), CMM (Less than 1 year), detail-oriented (Less than 1 year), HTML (9 years), XML (9 years)

ADDITIONAL INFORMATION

• Senior software developer with 21 years of C++, Java, and Linux development experience
• Application developer with a strong background in architecture and frameworks
• Experience working with DoD clients in the information operations, air defense, BMD, radar, M&S and high-speed data processing domains

• Technical skills: Java, JNI, C, C++, HTML, JSON, Ruby, XML/XSD, UML, CMM/SEI, Agile, Linux
• Frequently embedded with customers and users
• Independent, detail-oriented, highly motivated, requires minimal direction, results oriented
• Excellent verbal and written communication skills