AMELIA FEDYK

Software Engineer

Results-driven and skilled Software Developer with a proven track record in software engineering and UI development.

Excels in R&D environments and eager to contribute to DOD government projects.

Recently engaged in a pro bono consulting role and leveraged volunteer positions to enhance technical skills during a career gap.

US Citizen, maintained a Top Secret clearance while at BBN Technologies.

GitHub
LinkedIn
ahfedyk@gmail.com

SKILLS

Software Design and Backend Development, Object Oriented Design, User Interface Development, Distributed Systems, Real-Time Operating Systems, Data Structures & Algorithms, Problem Solving, Collaboration, Customer Support.

JAVA, JavaScript, JQuery, C, C++, Python, MySQL, Linux OS, VI, Perl, CVS, Subversion, JUnit, CSS, Web Services, Eclipse, Intellij IDEA, Visual Studio, Github

EXPERIENCE

Software Engineering Consultant, Inner Dragon Consulting; Greater Boston Area — 2012-2013

- Implemented User Interfaces to facilitate visualization and understanding of dynamic, complex datasets.

Senior Software Engineer, BBN Technologies; Cambridge, MA — 1999-2011

- Designed and implemented a Java web-services-based distributed framework for real-time information assurance assessment during transactions, enhancing the security posture of information systems
- Developed UI to support efficient exploration and organization of medical record data from disparate heterogenous sources for outcome-based analytics
- Modeled logistics demand and inventory management strategies for distributed, multi-agent systems
- Supported customers and external contractors

Software Engineer, Raytheon; Marlborough, MA — 1996-1999

- Developed user interfaces (UIs) for the STARS (Standard Terminal Automation Replacement System) Air Traffic Control Situation Data Display
- Teamed with Systems Engineers to design an interface to collect and display information from a time-critical distributed battle simulation test-bed

Associate Software Engineer, Xerox; Webster, NY — 1995-1996

- Maintenance Engineer for high speed monochrome and color laser printers
- Represented Print Engine Development Unit at customer sites

VOLUNTEER EXPERIENCE

Communication Team/Lead, Lincoln-Sudbury Regional High School Parent/Guardian Organization; Sudbury, MA — 2020-2023

- Successfully migrated web-portal infrastructure from Joomla CMS to WordPress
- Designed, updated and maintained the organization's website

Chief Technical Officer, Learning Disabilities Association of Lake Forest/ Lake Bluff; Lake Forest, IL — 2013-2016

EDUCATION

BS, Computer Science, Summa Cum Laude
BA, Philosophy, Cum Laude
St. John Fisher University, Rochester NY

Publications

Patrick Hurley, Partha Pal, Matt Tan Creti, **Amy Fedyk,** “Continuous Mission-Oriented Assessment (CMA) of Assurance.” Fifth Workshop on Recent Advances in Intrusion Tolerant Systems at the 41st IEEE/IFIP International Conference on Dependable Systems and Networks (DSN) June 27, 2011, Hong Kong.

Amelia Fedyk, Michael Atighetchi, Partha Pal. “Leveraging ESM Platforms for Continuous Mission- Oriented Assessment of Information Assurance.” The 6th International Conference on Network and Services Management (CNSM 2010), Niagra Falls, Canada, October 2010

P. Collins, **A. Fedyk**, L. Goldston, G. Kratkiewicz, S. Stevens, J. Tustin, “Expanding the U.S. Transportation Command’s Analysis of Mobility Platform (AMP) Federation to Model Aerial Ports of Debarkation (APODs),” Paper No. 06S-SIW-023, Proceedings of the 2006 Spring Interoperability Workshop, Simulation Interoperability Standards Organization, April 2006, Huntsville, AL.

A. Fedyk, G. Kratkiewicz, J. Berliner, M. Davis, B. DePass, R. Lazarus, R. Bobrow, “Adaptive Optimization of Solution Time In A Distributed Multi-agent System,” International Conference on Integration of Knowledge Intensive Multi-Agent Systems (KIMAS), April 2005, Waltham, MA.

G. Kratkiewicz, **A. Fedyk**, D. Cerys, “Integrating a Distributed Agent-Based Simulation into an HLA Federation,” Paper No. 04S-SIW-018, Proceedings of the 2004 Spring Interoperability Workshop, Simulation Interoperability Standards Organization, April 2004, Arlington, VA.