AMELIA FEDYK

Software Engineer

- Proven ability to adapt to evolving project needs and foster collaborative approach to problem-solving

- Proficient at communicating complex technical concepts to non-technical stakeholders, as well as collaborate with cross-functional teams.

- Adept at contributing to accurate and unambiguous technical design specifications

- Thrive in an agile environment where communication and collaboration are valued

 GitHub
 LinkedIn
 ahfedyk@gmail.com
 amyfisticuffs.github.io

SKILLS

Communication, Collaboration, Customer Support, Microsoft Office, Adobe Photoshop, Content Management Systems, Email Marketing Platforms, Software Design and Backend Development, Software Design and Backend Development, Object Oriented Design, User Interface Development, Distributed Systems, Real-Time Operating Systems, Data Structures & Algorithms, Problem Solving.

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

EXPERIENCE

Communication Technical Lead, Lincoln-Sudbury Regional High School Parent/Guardian Organization; Sudbury, MA — 2020-2023
- Successfully migrated a Joomla Content Management System to the WordPress platform.
- Curated and disseminated weekly newsletters, fostering effective communication.
- Oversaw the ongoing maintenance and updates for the LSPO website

Grocery Shopper Volunteer, Sudbury Senior Center; Sudbury, MA — 2020-2023
- Shopped at local super markets for a homebound senior forging meaningful connections with the senior I had the privilege to assist.

Vice Chair, PlaySudbury; Sudbury, MA — 2017 - 2019
- Conducted research and provided editing support for the Cummings and Sudbury Foundation Grant proposals.
- Actively contributed to the maintenance of our organization's website.
- Engaged with local businesses to garner their support and sponsorship for our events, highlighting our collaborative efforts to enrich the lives of Sudbury residents.
- Created Logo.

Chief Technical Officer, Learning Disabilities Association of Lake Forest/Lake Bluff; Lake Forest, IL — 2013-2016
- Responsible for the oversight and maintenance of the organization's website, including installation and upkeep of a user-friendly and responsive e-commerce platform for one-time and recurring donations.
- Played an integral role in advertising and fundraising efforts for the highly successful annual Spring Marché fundraiser.

Software Engineering Consultant, Inner Dragon Consulting; Greater Boston Area — 2012-2013
- Launched company and contracted with STR where I implemented user interfaces to facilitate the visualization and understanding of dynamic, complex datasets.

AMELIA FEDYK

Software Engineer

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

- US Citizen

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

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

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Senior Software Engineer, BBN Technologies; Cambridge, MA — 1999-2011
- Developed UI to support efficient exploration and organization of medical record data from disparate heterogenous sources for outcome-based analytics
- Constructed data normalization components which translated hospital specific notation from patient records into a shared medical language
- 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
- 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 FAA's 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
- Software Maintenance Engineer for high speed monochrome and color laser printers.
- Represented Print Engine Development Unit at customer sites.

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.