Gregory Hildstrom

Senior Principal Software Development Engineer

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Objective

My objective is to retain a position where I am continuously intrigued and challenged, but not bored or overly stressed. Remote work options are a plus since I have family on both sides of the Atlantic.

Education and Certification

- M.S. in Information Technology - Information Assurance (Cybersecurity) from University of Maryland University College; 3.833 GPA May 2013
- Certified Information Systems Security Professional (CISSP); 353312 September 2009 - December 2021
- B.S. in Computer and Information Science from University of Maryland University College; 3.838 GPA May 2006
- Studied Computer Engineering at Virginia Tech; August 1998 - May 2001
- Amateur Radio License; KB3NFW 2006, KI5AWV 2018

Publications

- US Patent # 10,318,209, Secure file transfer to process (a.k.a. Secure Move), Issued 6/11/2019
- Security Enhanced Linux Multi-Level Security Performance Implications. Hildstrom, Gregory Alan. Herndon, VA. Trusted Computer Solutions, 2010.
- JHSV Analysis Engine 2006-12. Hildstrom, Gregory Alan. Navy Technical Report NSWCCD- 65-TR-2006/15. Bethesda, MD. Naval Surface Warfare Center Carderock Division, 2007.

Experience

Everfox, Herndon, VA (April 2007 - October 2025)

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2021 Senior Principal Software Development Engineer, Forcepoint
2018 Principal Software Development Engineer, Forcepoint
2011 Senior Software Development Engineer, Raytheon
2009 Senior Secure Systems Engineer, Trusted Computer Solutions
2007 Secure Systems Engineer, Trusted Computer Solutions
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- Circle of Excellence award winner in 2023
- US Patent # 10,318,209, Secure file transfer to process (a.k.a. Secure Move), Issued 6/11/2019
- Red Hat Enterprise Linux (RHEL) application and OS-level development
- SELinux multi-level security (MLS) and multi-category security (MCS) policy modules and associated OS configuration
- Cross Domain Solution (CDS) product development
    - Trusted Gateway System (TGS)
    - WebShield
    - SimShield
    - Trusted Thin Client (TTC)

- Data filtering and validation
- Numerous prototypes and proofs of concept
- Local LLM data filtering PoC with LM Studio and Ollama
- OpenSCAP STIG & CVE testing and remediation
- Linux Kernel module development
- Linux VMs and containers
- Automated testing
- Build automation
- Open-source contributions to libxml2 and JALoP
- C, Rust, Git, SELinux policy, C++, QT, GTK, Python, Java, JNI, Bash, Linux Kernel, Apache HTTP Server, XML, SVN, SQL, Windows, macOS

Naval Surface Warfare Center, Bethesda, MD (June 1999 - April 2007)

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2005 Owner, Hildstrom Engineering
2002 Research Scientist, George Washington University
1999 Engineering Technician, NSWCCD
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- JHSV Analysis Engine data analysis software
- Rainflow fatigue damage calculation
- Linux cluster research, design, construction, and system administration
- Ship structure data analysis (ultimate strength, cyclic, model tests, and full-scale sea trials)
- High Volume Data Analysis Suite
- Unmanned vehicle wireless communications using 802.11 frequency-shifted and amplified
- Unmanned vehicle power and payload research, development, and field testing
- NSWC test facility equipment Ethernet and wireless networking
- Waveguide antenna design and construction
- Soldered, wired, and fabricated data acquisition signal junction boxes
- C, C++, MPI, VSIPL, ODBC, GTK, Java, SQL, Bash, Microchip Assembly, Linux, Windows

Personal Interests

- Trail running
- Motorcycles
- Welding (TIG, MIG, Stick)
- 3D printing
- Ham radio
- Electromechanical projects