Maxwell C Renke

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AREAS OF EXPERTISE

Cross-functional Team Leadership | Engineering Management | Cloud Security | Confidential Computing |
Virtualization | Business Impact Assessment | Risk Management | Software Development Lifecycle (SDL)

EXPERIENCE

Microsoft

Security Assurance Program Manager II, MORSE   **December 2021 – May 2025**
- Part of the MORSE (Microsoft Offensive Research and Security Engineering) PM team, driving offensive security initiatives to fortify Microsoft's platforms.
- Led efforts to define security requirements and policies across all Cloud critical infrastructure, ensuring a resilient foundation for Microsoft's global cloud ecosystem.
- Played a key role in mitigating a nation-state attack on mission-critical Azure assets, driving high-priority security defenses through definition, communication, and implementation.
- Assisted in prioritizing attack surfaces for various products and services impacting the entire Azure ecosystem, strengthening Microsoft's overall security posture.
- Defined security promises and reviewed the implementation of Confidential VMs, contributing to Azure Confidential Computing's security guarantees.
- Established policies and procedures to enforce the Software Development Lifecycle (SDL) across all Microsoft products, enhancing security at every stage of development.
- Influenced teams to prioritize security over feature development, ensuring that Microsoft's products maintained strong defense mechanisms.
- Took findings from offensive security engineers and translated them into business impact assessments for leadership, ensuring informed risk management decisions.
- Regularly facilitated collaboration across multiple disciplines and teams with conflicting goals, leading to more effective business and security decisions.
- Managed large-scale customer relationships, both internal and external to Microsoft, leveraging security expertise to help create the most secure products.
- Reviewed third-party drivers entering Azure, enforcing Microsoft's security standards before allowing them in production, maintaining ecosystem integrity.
- Supported vulnerability research and security engineers by ensuring their priorities were aligned with organizational goals, maximizing the impact of their work.

Program Manager 2, Azure Host Platform Team   **August 2019 – December 2021**
- Built, maintained, and deployed the host operating system of Azure, the world's largest computer, ensuring reliability and security at an unprecedented scale.
- Led the effort to create the next-generation host operating system for Azure, shaping the future of cloud infrastructure.
- Enabled Virtualization-Based Security across the entire Azure fleet, a critical defense against nation-state attackers protecting Microsoft's most valuable assets.

Program Manager, Windows Kernel Team   **February 2017 – August 2019**
- Worked directly with the Windows Kernel Security Core development team to enhance kernel security and improve features like Virtualization-Based Security.

- Developed security-focused products such as Windows Defender Application Guard, Windows Defender System Runtime Attestation Guard, and Windows Admin Center, strengthening system defenses.
- Worked across disciplines to achieve ambiguous business goals, ensuring alignment between technical innovation and strategic decision-making.
- Won the 2018 STRIKE Capture the Flag event, demonstrating expertise in web application security.

Project Manager, University of New Hampshire Interoperability Laboratory (IOL)   **July 2015 – July 2017**
- Led a team of 4 employees, responsible for all aspects of managing the team including being a technical resource for all layer 2 networking protocols, mentoring junior employees, and achieving strategic objectives for the team as a whole
- Managed vendor relationships with 10-15 vendors; drove improvements in testing and troubleshooting process
- Focused on leading by example to give members of my team the tools to think critically and solve problems

EDUCATION

Master of Science (M.S.), Computer Science   **2016**
University of New Hampshire, Durham, NH

Bachelor of Science (B.S.), Computer Science   **2015**
University of New Hampshire, Durham, NH

Budapest University of Technology and Economics (BME), Budapest, Hungary   Summer 2013

PATENTS

Using Secure Memory Enclaves From The Context Of Process Containers
11256785, Issued February 22, 2022

System compliance based on a mix of hotpatches and coldpatches
11403092, Issued July 9, 2020

AWARDS

Winner, STRIKE Capture the Flag   **2018**
Microsoft

Best Data Privacy Hack, HackDartmouth   **2016**
Dartmouth College

Eagle Scout, Troop 109, Londonderry NH   **May 5, 2010**
Created Community Education and Awareness Presentation on Celiac Disease