

## **Curriculum Vitae of Golden G. Richard III**

Professor of Computer Science and Engineering  
Director, LSU Cyber Center and Applied Cybersecurity Lab  
Associate Director for Cybersecurity, Center for Computation and Technology (CCT)  
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### **Personal Data**

Born August 12, 1964 in Jennings, LA. U.S. Citizen.

### **Education**

- Ph.D. Computer Science, The Ohio State University, 1995.  
Dissertation Title: "Techniques for Process Recovery in Message-Passing and Distributed Shared Memory Systems," Advisor: Mukesh Singhal.
- M.S. Computer Science, The Ohio State University, 1991.
- B.S. Computer Science (Honors), minor in philosophy, University of New Orleans, 1988.
- GIAC Certified Forensics Analyst (Gold GCFA), 2004-present.

### **Areas of Expertise**

- Cybersecurity, digital forensics, memory forensics, exploit development, reverse engineering, malware analysis, darknet technologies and overlay networks, operating systems, systems programming, distributed systems, networking

### **Current Affiliations, Duties, and Professional Society Memberships**

- Professor of Computer Science and Engineering, LSU, 2017-present.
- Director, LSU Cyber Center, LSU, 2023-present.
- Associate Director for Cybersecurity, Center for Computation and Technology (CCT), LSU, 2017-present.
- Member, Sigma Xi, 2020-present.
- Member, AAAS, 2024-present.
- Fellow of the American Academy of Forensics Sciences (AAFS), 2014-present.
- Editorial Board, Computers and Security (Elsevier), 2016-present.
- Editorial Board, Digital Investigation (Elsevier), 2005-present.
- Editorial Board, Forensic Science International (FSI): Reports, 2019-present.
- Member of the Association for Computing Machinery (ACM).
- Member of the IEEE Computer Society.
- NSA CAE-CO PoC for LSU.
- Owner, Arcane Alloy, LLC, 2012-present.

### **Selected Recent Books/Chapters**

- C. J. Hoofnagle and G. G. Richard III, Cybersecurity in Context, Wiley, 2024.

- G. G. Richard III, "Disinformation: A Cybersecurity Perspective," In *The Disinformers: Social Media, Disinformation, and Elections*, LSU Press, 2024. ISBN: 9780807182581.

#### **Selected Recent Journal and Conference Publications**

- A. Case, A. Sellers, G. G. Richard III, D. McDonald, G. Moreira, "Defeating EDR Evading Malware with Memory Forensics," *DEFCON*, August 2024.
- C. Bowen, A. Case, I. Baggili, G. G. Richard III, "A Step in a New Direction: NVIDIA GPU Kernel Driver Memory Forensics," *Forensic Science International: Digital Investigation*, vol. 49, July 2024.
- J. Jankura, H. Catallo-Stooks, I. Baggili, G. G. Richard III, "Catch Me if You Can: Analysis of Digital Devices and Artifacts Used in Murder Cases," *International Conference on Digital Forensics and Cyber Crime*, November 2023.
- C. Glass, R. Mettig, A. Case, G. G. Richard III, "Assessing the Threat of Rosetta 2 on Apple Silicon Devices," *Digital Investigation, Forensic Science International: Digital Investigation*, vol. 46, September 2023.
- A. Alshaya, A. Kardoff, C. Facundus, I. Baggili, G. G. Richard III, "Memory Forensics of the OpenDaylight Software Defined Networking (SDN) Controller," *Proceedings of the 18<sup>th</sup> International Conference on Availability, Reliability, and Security (ARES 2023)*, August 2023.
- A. Ali-Gombe, S. Sudhakaran, R. Vijayakanthan G. G. Richard III, "RGB Mem: At the Intersection of Memory Forensics and Machine Learning," *Proceedings of the 2023 Digital Forensics Research Conference (DFRWS 2023)*, July 2023.
- L. Pace, L. Salmon, C. Bowen, I. Baggili, G. G. Richard III, "Every Step You Take, I'll be Tracking You: Forensic Analysis of the Tile Tracker Application," *Proceedings of the 2023 Digital Forensics Research Conference (DFRWS 2023)*, July 2023.
- A. Case, G. Moreira, A. Sellers, G. G. Richard III, "New Memory Forensics Techniques to Defeat Device Monitoring Malware," *Blackhat USA 2022*, August 2022, Las Vegas.
- M. Manna, A. Case, A. Ali-Gombe, G. G. Richard III, "Memory Analysis of .NET and .Net Core Applications," *Proceedings of the 2022 Digital Forensics Research Conference (DFRWS)*, July 2022, virtual.
- S. Sudhakaran, A. Ali-Gombe, A. Case, G. G. Richard III, "Evaluating the Reliability of Android Userland Memory Forensics," *Proceedings of the International Conference on Cyber Warfare and Security*, 2022.
- A. Case, G. G. Richard III, "Fixing a Memory Forensics Blind Spot: Linux Kernel Tracing," *Blackhat USA 2021*, August 2021, Las Vegas.

#### **Selected Recently Funded Grants/Contracts**

- "ADP68: NASIC T-2 Program FY23," NextFlex, PI, \$187,218, 2024-2025.
- "NSF POSE: Phase II: Nexus: Harnessing open High Performance Computing (HPC) through HPX," National Science Foundation, co-PI (with Mohammad Tohid, Hartmut Kaiser, Wayne Newhauser, Deborah Goldgaber), \$1.5M, 2024-2026.
- "Adding STIX Support to the Volatility Memory Forensics Framework," CINA / Department of Homeland Security (DHS), PI (with Aisha Ali-Gombe, Abe Baggili), \$500K, 2024-2026.
- "Memory Forensics-Guided Execution Reconstruction for Android Devices," CINA / Department of Homeland Security (DHS), co-PI (with Aisha Ali-Gombe, Abe Baggili, Umar Farooq), \$500K, 2024-2026.
- "LSU Cyber Clinic for Small Businesses," National Security Agency, co-Pi (with PI Aisha Ali-Gombe, Co-PIs Anas Mahmoud, Scott Sullivan, Glenn Sumners, Rudy Hirschheim, Helmut Schneider, Greg Trahan, Andrew Case), \$1.5M, 2023-2025.
- "POSE: Phase I: Constellation: A Pathway to Establish the STE||AR Open-Source Organization," National Science Foundation, co-PI (with M. Tohid, H. Kaiser, P. Diehl of LSU), \$300,000, 2022-2023.