

Curriculum Vitae of Golden G. Richard III

Professor of Computer Science and Engineering
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. TS/SCI security clearance.

Education

- Ph.D. Computer Science, The Ohio State University, 1995.
- 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 (GCFA), 2004-present.

Areas of Expertise

- Cybersecurity, digital forensics, memory forensics, reverse engineering, malware analysis, operating systems internals, darknets, cryptocurrencies and blockchains

Current Affiliations and Duties

- Professor of Computer Science and Engineering, LSU, 2017-present.
- Associate Director for Cybersecurity, Center for Computation and Technology (CCT), LSU, 2017-present.
- NSA Employee (under IPA), supporting the Center for Academic Excellence in Cyber Operations (CAE-CO) internship program.
- Owner, Arcane Alloy, LLC.
- Fellow of the American Academy of Forensics Sciences (AAFS), 2014-present.
- Member of the American Academy of Forensics Sciences (AAFS), 2008-present.
- Member of the Association for Computing Machinery (ACM).
- Member of the IEEE Computer Society.
- Board of Directors of the Digital Forensics Research Workshop (DFRWS), 2005-present.
- Editorial Board, Computers and Security (Elsevier), 2016-present.
- Editorial Board, Digital Investigation (Elsevier), 2005-present.
- Editorial Board, Journal of Forensic Sciences (AAFS), 2018-present.
- Editorial Board, Forensic Science International (FSI): Reports, 2019-present.

Previous Affiliations

- University Research Professor, University of New Orleans, 2011-2016.
- Professor of Computer Science, University of New Orleans, 1994-2016.

- Director, Greater New Orleans Center for Information Assurance (GNOCIA), 2009-2016.
- Professeur Invité, Ecole Polytechnique de Montreal, 2009.
- Visiting Associate Professor of Computer Science, University of Texas at Austin, 2005.

Selected Recent Publications

- A. Ali-Gombe, S. Sudhakaran, A. Case, G. G. Richard III, "DroidScraper: A Tool for Android In-Memory Object Recovery and Reconstruction," *Proceedings of the 22nd International Symposium on Research in Attacks, Intrusions and Defenses (RAID 2019)*, Beijing, China, 2019.
- R. Bhatia, B. Saltaformaggio, S. J. Yang, A. Ali-Gombe, X. Zhang, D. Xu, G. G. Richard III, "Tipped Off by Your Memory Allocator: Device-Wide User Activity Sequencing from Android Memory Images," *Proceedings of the 2018 Network and Distributed System Security Symposium (NDSS 2018)*, February 2018, San Diego, CA.
- A. Case, M. Jalalzai, M Firoz-Ul-Amin, R. Maggio, A. Ali-Gombe, M. Sun, G. G. Richard III, "HookTracer: A System for Automated and Accessible API Hooks Analysis," *Proceedings of the 2019 Digital Forensics Research Conference (DFRWS)*, July 2019, Portland, OR.
- A. Ali-Gombe, B. Saltaformaggio, R. Ramanujam, D. Xu, G. G. Richard III, "Towards a More Dependable Hybrid Analysis of Android Malware Using Aspect-Oriented Programming," *Computers and Security (COSE)*, vol. 73, March 2018.
- A. Case, A. Das, S-J Park, R. Ramanujam, G. G. Richard III, "Gaslight: A Comprehensive Fuzzing Architecture for Memory Forensics Frameworks," *Proceedings of the 2017 Digital Forensics Research Conference (DFRWS)*, August 2017, Austin, TX.
- A. Case, G. G. Richard III, "Memory Forensics: The Path Forward," *Journal of Digital Investigation*, (20)3, pp. 23-33, 2017.

Selected Grants/Contracts

- "SFS: CyberCorps Scholarships for Service at Louisiana State University," National Science Foundation, PI (with many collaborators from LSU Engineering and ISDS), 2020-2024, \$3,358,221.
- "SaTC: CORE: Medium: Robust Memory Forensics Techniques for Userland Malware Analysis," National Science Foundation, PI (with A. Case of the Volatility Foundation), 2017-2020, \$1,113,426.
- "Introducing Active Learning to Malware Analysis Curricula," National Security Agency, PI (with A. Ali-Gombe of Towson University), 2018, \$220,643.
- "SaTC-EDU: EAGER: Peer Instruction for Cybersecurity Education," National Science Foundation, co-PI (with I. Ahmed, V. Roussev), 2015-2017, \$300,000.
- "TWC: Medium: Collaborative: Towards a Binary-Centric Framework for Cyber Forensics in Enterprise Environments," National Science Foundation, PI, 2014-2017, \$400,000 (of \$1.2M, collaborative effort with Purdue).

References are available upon request.