Andrew Schoonmaker

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Education and Portfolio

Louisiana Tech University (2017-2021)   **GPA:** 3.87

Major: Cyber Engineering (BS)   **Minors:** Computer Science and Mathematics

Technical Skills

Software: Kali Linux, Python, Java, C, C++, Javascript Nessus, Nmap, FreePbx, Protégé, Spice, VHDL, OpenCV, SQL, SPARQL, Docker, Autopsy, Travis-CI, GraphQL

Service: Penetration testing, Prototyping, Social Engineering: Phishing and Vishing, Computer Vision, Knowledge Engineering, Unit testing

Certifications: Security+ CompTIA, OSCP, eWPT, AWS SA, Ham Radio Technician

Clearance: Active DoD Secret Security Clearance

Work Experience

Senior Associate, Capital One (8/1/2021 – Present) – Dallas, TX
- Discovered vulnerabilities through network and web application penetration testing of internal products
- Developed solutions for securing AWS cloud deployments and large-scale low-cost cloud monitoring
- Applied knowledge representation principles to create inference engines for cloud security

Cyber Technology Intern, Capital One (6/1/2020 – 8/1/2020) – Dallas, TX
- Developed axioms and custom relational database solutions to provide a big data graph for data sources
- Managed Amazon Neptune instances to develop complex ontological relationships for company wide data
- Created scalable API to automate SPARQL queries using Node JS to provide endpoint for security analysts to leverage ontology in their information gathering

Secure Software Research Intern, Radiance Tech (3/1/2019 – 6/1/2021) – Ruston, LA
- Implemented DEVS model for a system of systems simulation for large amounts of data
- Leveraged description logic and ontologies to develop a machine learning reasoner to infer relationships
- Researched novel ways to develop cutting edge technology using Markov Logic and TPKB's
- Applied computer vision and machine learning techniques to process arbitrary pictures of lab specimen

Associate Security Analyst, Trace Security (5/1/2017 – 8/1/2018) – Baton Rouge, LA
- Ran External Penetration tests against financial institutions and medium sized businesses
- Spoofed Phone Calls to perform remote social engineering attacks against companies
- Performed assessments on companywide systems with phishing and vulnerability scans
- Reviewed financial institution technology and security policy for best industry practices
- Trained new full-time employees on various tasks like social engineering and report writing

Community Involvement and Awards

Eagle Scout of Boy Scout Troop 888 (2016), President of Association of Cyber Engineers, 1st Place Winning Team for Capital One SES Hackathon with BiteWise App (2019), Who's Who at Louisiana Tech (2021), 1st Place Capital One Offsec CTF (2022), Responsible Disclosure and Bug Bounty