

# Andrew Schoonmaker

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schoobydrew.github.io

Baton Rouge, Louisiana

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## Education and Portfolio

Louisiana Tech University (2017-2021)

GPA: 3.85

Major: Cyber Engineering (BS)

Minors: Computer Science and Mathematics

Coursework: Computer Network Security, Data Mining, Forensics, Penetration testing With Kali (PWK-OSCP), Reverse Engineering, Cryptography, Knowledge Discovery, Science of Computing, Data Structures, Advanced Data Structures and Algorithms, Circuits, Microprocessors, Digital Design, Embedded Systems, Systems Programming, Operating Systems, Discrete Math, Linear Algebra, Public Speaking, Speech and Debate, Technical Writing

## Technical Skills

Software: Kali Linux, Python, Java, C, C++, Nessus, Nmap, FreePbx, Protégé, Spice, VHDL, OpenCV, SPARQL

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

Certifications: Security+ CompTIA, Ham Radio Technician

Clearance: Active DoD Secret Security Clearance

## Work Experience

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### Cyber Technology Intern, Capital One (June 2020 – August 2020) - Dallas, TX

- Developed axioms and custom relational database solutions to provide a big data solution to multiple data sources
- Managed Amazon Neptune instances to develop complex ontological relationships for company wide data processing
- Created scalable API to automate SPARQL queries using Node JS to provide endpoint for security analysts to leverage ontology in their research

### Secure Software Research Engineering Intern, Radiance Technologies (March 2019 – Present) - 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 (May 2017 – August 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), Man of the Year at Catholic High School (2017), National Merit Finalist and Scholar (2017), Annie Low Stiles Scholarship (2018), Secretary of Association of Cyber Engineers (2018), Vice President of Association of Cyber Engineers, 1<sup>st</sup> Place Winning Team for Capital One SES Hackathon with BiteWise App (2019)