Brendan Lucich

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EDUCATION	**Bachelor of Science in Computer Science**	May 2022

Minor: Mathematics
The University of Alabama, Tuscaloosa, AL
GPA: 3.5/4.0
Relevant Coursework: C; C++; Data Structures and Algorithms; Databases; Network Security; Cryptography; Behavioral Cyber Security; Software Design and Engineering; Cyber Law and Ethics; Microcomputers; Digital Logic; Digital Forensics; Discrete Mathematics 1 & 2; Calculus 1, 2, & 3; Physics 1 & 2

WORK EXPERIENCE

Computer Scientist Intern – U.S. Department of Transportation   May 2021 – Aug 2021
Volpe Center, Cambridge, MA
- Developed natural language processing (NLP) machine learning models for 1.7 million Vehicle Owner Questionnaire Forms to identify potential hazards more efficiently for motorists
- Performed quality assurance (QA) testing on the Advanced Driver-Assistance Systems (ADAS) Crash webform, created Jira tickets for discovered bugs, and peer reviewed other developer tickets
- Data labeled 100,000 pictures to be used to train a machine learning model to detect railroad trespasses for the Federal Railroad Administration (FRA)
- Shadowed a I.T. project manager during developing an enterprise application and preparing for a technical transition at the end of the fiscal year

Network Intrusion Lab Intern/Research Assistant   Jan 2020 – Dec 2020
Joint Electronic Crimes Task Force, Tuscaloosa, AL
- Built tools to monitor and analyze the criminality of darkweb network traffic by developing TOR web crawlers and parsers using Python
- Used open-source intelligence tools (OSINT) to aid Dr. Dolliver's team in assisting law enforcement agencies with requests for information
- Analyzed over 500,000 data entries from a TOR exit node using Wireshark to gather the data and SQL to query results
- Used NMAP as a network security scanner and port scanner for network analysis and penetration testing

Resident Advisor   Aug 2019 – Present
The University of Alabama, Tuscaloosa, AL
Housing & Residential Communities
- Provide after hours on-call and crisis response services within the housing community
- Responsible for creating an inclusive and safe environment for residents

Teaching Assistant   Jan 2019 – May 2020
The University of Alabama, Tuscaloosa, AL
Foundations of Engineering (ENGR 103)
- Assist faculty in grading exams and homework
- Proctored exams, demonstrated labs, and created weekly assessments
- Repaired and inventoried lab equipment

SKILLS

Programming Languages: Python, C++, C, Node.js, React, Angular, SQL
Security: OSINT, Penetration Testing, Information Retrieval, HASHCAT, NMAP, Wireshark
Operating Systems: UNIX, Linux, MacOS
Software: Visual Studio Code, Confluence, Jira, Anaconda, Amazon Web Services (Lambdas, Cloud Watch, EC2, S3, AMI), Anaconda, IntelliJ Idea (including unit testing), PyCharm Edu

ACHIEVEMENTS

US CyberCorps Scholarship for Service Recipient
Foundation in Excellence Scholarship, The University of Alabama
UA Dean's List: Fall 2018, Spring 2019, Spring 2020, Spring 2021
Resident Advisor of the Year, 2020
Georgia State Youth Referee of the Year, 2019

ACTIVITIES

Crimson Defense - Cyber Security Club
Association for Computing Machinery (ACM)
Kids Club – Volunteer at local recreational center to mentor at-risk teens