

Brandon Tyler Werner

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EDUCATION:

- Worcester Polytechnic Institute (WPI) – Worcester, MA** May 2019
Master of Science (M.S.) in Data Science with a concentration in Cyber Security
National Science Foundation (NSF) CyberCorps Scholarship for Service (SFS) Scholar
Courses: Statistical Methods for Data Science, Applied Statistics, Computer Security, Machine Learning, AI
- Baylor University – Waco, TX** May 2017
Bachelor of Business Administration (B.B.A.) in Management Information Systems (MIS)
Courses: Information Security, Java development, Database Management, Systems Analysis and Design, BI

ACADEMIC PROJECTS:

- Computer Security, WPI** January 2018 – April 2018
- Compromised the password of WEP and WPA-2 WIFI router using Aircrack-ng to crack the password
 - Discovered 3 compromised accounts on a UNIX system by locating the UNIX password and shadow files
 - Performed hash dictionary attack on the passwords of available accounts using John the Ripper
- Statistical Methods for Data Science, WPI** January 2018 – April 2018
- Used machine learning to train models to predict U.S. counties with higher rates of mortality caused by respiratory issues using EPA Air Quality Index data
 - Trained models using KNN, PCA, GAMs, Decision Trees, Ridge Regression, and Lasso algorithms
- Business Intelligence, WPI** January 2018 – April 2018
- Created visualizations in R and executive dashboard to provide sales insights to largest bookstore in New England
 - Recommended business process improvements to allow bookstore to easily locate and remove old inventory from their shelves to improve customer service by 19%
- Introduction to Data Science, WPI** August 2017 – December 2017
- Identified 17 financial institutions conducting predatory practices by analyzing low-income areas and complaints
 - Performed exploratory data analysis of 900,000+ textual complaints using Pandas, Matplotlib, NumPy and Plotly
 - Analyzed sentiment of textual reviews using NLTK library and used scikit-learn for logistic regression analysis

SKILLS:

Cyber Security: Vulnerability scanning, Intrusion Prevention Systems, Intrusion Detection Systems, Microsoft Baseline Security Analyzer, Wireshark, Kali Linux, Aircrack-ng, Splunk, Metasploit, Snort, Nmap, tcpdump
Tools: PCAP, RSA Archer GRC, Git, Jupyter Notebook, TensorFlow, SSH, Elastic Search, Kibana
Programming Languages: Python, Bash, JSON, R, SQL, Java, XML, Visual Basic, HTML, VBA Macros

- MITRE Institute** – Completed Applied Deep Learning course from Nvidia Deep Learning Institute June 2018
Stanford University – Completed Statistical Learning course with Distinction April 2018
EMC Corporation – Completed EMC Corporation Cloud and Infrastructure Services (CIS) course August 2015

WORK EXPERIENCE:

- The MITRE Corporation – Bedford, MA**
- Cyber Security Defense Operations Intern April 2018 – August 2018
- Trained a machine learning model using features from domain registration data to detect malicious domain names
 - Performed PCA, QDA, LDA and other statistical techniques on 25,000 randomly generated geospatial data points
 - Wrote python script to continuously output certificate transparency log data to a flat JSON file for use in our model

Juniper Networks, Inc. – Westford, MA

Business Operations Management Intern

May 2016 – August 2016 / May 2017 – August 2017

- Saved \$9.5 million from order log by using statistical analysis to identify insights and conclusions from data sets
- Performed data mining and data validation using Python to save team 1500+ hours per year on order validation
- Enabled implementation of Single Sign-on (SSO) with Tableau Enterprise dashboard using Active Directory

EMC Corporation – Southborough, MA

Security Architecture (Cyber Security) Intern

June 2015 – August 2015

- Reduced hours spent on regulatory compliance by 27% (500+ hours) by developing Governance, Risk, and Compliance (GRC) functions in a GRC software environment and created training documentation
- Managed 80 security tickets a day, closed 97% and escalated 3% of security tickets to correct development team
- Identified and blocked 127 malicious IP addresses by capturing and analyzing packets using Wireshark

The TJX Companies, Inc. – Marlborough, MA

Desktop Engineering Intern

May 2014 – August 2014

- Led team of interns to image 25 Windows devices a day (previous average of 23 devices) by training new interns
- Facilitated 3 data recovery and eDiscovery projects for litigation using Symantec eDiscovery Platform
- Saved team 600+ hours per year by creating a service catalog repository to improve team documentation process