Kamran Arshad

karshad@gmu.edu | (703) 341-9321 | Arlington, VA | Active Secret Clearance (DOD)

EDUCATION

George Washington University Washington, DC 08/2020 - 05/2022

Master of Science in Data Analytics

George Mason University Fairfax, VA 08/2015 - 05/2020

Bachelor of Science in Information Technology

Database Technology and Programming Concentration

GPA: 3.41 Major GPA: 3.73

 <u>Relevant Coursework</u>: Object-Oriented Programming Techniques for IT Problem Solving, Data Structures and Algorithms, IT Problem Solving Using Computer Programming, Database Programming, Database Fundamentals, Operating Systems Fundamentals, Multimedia and Web Design, IT Project Management, Systems Design and Architecture

Cyber Security Concentration

• <u>Relevant Coursework:</u> Information Security Fundamentals, Network Security, Network Defense Technologies, Data and Application Security, Security Accreditation of Information Systems

Capstone Project

Web Crawler - Fairfax County Economic Development Authority (FCEDA)

06/2019 - 04/2020

- Designed a web crawler to crawl the internet and find data on companies/startups that fit the description of FCEDA's business logic to help FCEDA expedite the client acquisition process.
- Developed and hosted the solution using AWS services. The team developed a solution using Python libraries (Scrapy, BS4) for web scrapping and Flask for backend deployment. Angular was used for front end/UI and deployed using Apache web server. SQLite DB is being used for data persistence. The application is running on EC2 instance, Route 53 is being used to control traffic and domain, and Other AWS services are being used for whitelisting the IP addresses and for security policies.
- Responsible for leading backend development and database development.

TECHNICAL SKILLS

Programming: Proficient in Java (OOP, Java Servlet, JDBC, JPA), Python (OOP, PyQt, Scrappy), R (Tidyverse, R Markdown), SQL, PL/SQL, HTML, CSS, JavaScript, REST API

Databases: Oracle 12c, MySQL, SQLite

Operating Systems: Linux (Kali, Ubuntu, Centos), Windows XP/7/8/10, OSX, Android

Applications/Tools: Eclipse, SQL Developer, Android Studio, PHPStorm, PyCharm, IntelliJ IDEA, MS Project, Microsoft Office

Suite, Adobe Creative Suite, MS Visio, Wireshark, Nmap, Ansible, Jenkins

Cyber/InfoSec: Strong Understanding of NIST Publications, RMF, FISMA, Fed Ramp, CMMC, Critical Infrastructure, U.S. Cyber Missions, Supply Chain Risk Management, Understanding of International Cyber Standards (UK Cyber Essential, Essential

Eight, GDPR)

PROFESSIONAL EXPERIENCE

Progeny Systems Corporation Manassas, VA 12/2019-Present

Engineering Support Specialist

- Development of a multifactor authentication software to be used in tactical environments.
- Design and manage the database and work with other backend developers to develop the market-ready software product.
- Developing an application using data analytics techniques like text analysis and inferential analysis to transform data gathered from tactical environment into useful information.
- Perform cybersecurity assessments on the application using various tools like Nmap and Wireshark.
- Performing Security Technical Implementation Guide (STIG) to identify potential weaknesses in the database and application code.
- Leading a Development of Provisioning Resiliency Framework (PRF) for the Navy which manages the payload throughout its lifecycle by automating the testing and integration process.

Department of Defense, OUSD A-S

Arlington, VA

06/2019-12/2019

Student Technical Intern – Cyber Security

- Collaborated with the team of Chief Information Security Officer (CISO) on the development of Cybersecurity Maturity Model Certification (CMMC) to improve the cybersecurity standards for 300,000 defense contracting companies.
- Supported the CISO with U.S. Cyber Command Mission in groups to help solve outdated operating systems issue.

Consulted with the development of the holistic scoring model to improve the supply chain visibility for defense
contractors. Holistic scoring model would provide a security score to the company based on their overall cybersecurity
and physical performance.

J & K Transportation Arlington, VA 03/2018-Present

Co-Founder and Managing Director

- Administer the team of 6 employees and a fleet of 3 semi-trucks.
- Responsible for managing all the accounts, operations and finances of the company.
- Successfully increased the annual revenue of the business to over \$650,000/Year within the second year of business.

PERSONAL PROJECTS

Database for J&K Transportation

06/2018 - Present

- Built a database in Oracle to support my transportation business to hold company records.
- Designed the relational database schema using MS Visio and implemented a schema using SQL/PL-SQL.
- Used JavaScript/HTML for frontend development to connect to the database for better usability.
- Currently working on an application which reads data from National Agriculture Statistics and multiple opensource load boards about available routes being offered by dispatchers/brokers to provide a cost analysis and suggest which route will be more profitable for the company.
- Designing the above application using AWS Comprehend (for entity recognition) and Scrapy library in Python for data extraction, cleansing, and transformation. the development of the application will be finished in September 2020

SIGNIFICANT COURSE PROJECTS

Made a complete working database for a Museum

03/2018 - 05/2018

- Designed the relational database schema using MS Visio and implemented the schema in MySQL database
- Generated the required tables with data types, relationship, and constraints. Grade Earned: A+

Tested the network defense tools in a virtual environment

09/2019 - 09/2019

• Created two virtualized operating systems using Kali and Ubuntu and then tested the network security for each using Wireshark and Nmap. Further enhanced the project by implementing a MySQL database and python-based application to use as a target for penetration testing the system. Grade Earned: A+

STUDENT LEADERSHIP/INVOLVEMENT

4th placeholder at *The TechStars Startup Weekend GMU*

11/2018

• Little Friends for Peace, Sports Counselor (Volunteer Position)

06/2013-Present

Member, Information Security System Association

12/2017-Present

• Treasurer, GMU Motorsports Club

09/2015-Present