# Imran Mohd Raji

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## EDUCATION

**BSc. Computer Engineering with Minor in Cybersecurity**　　　　University Park, PA | May 2020
THE PENNSYLVANIA STATE UNIVERSITY

## WORK EXPERIENCE

**CODERS DATA** | SOFTWARE ENGINEER　　　　State College, PA | Oct 2020 – Now

- Identify and evaluate network vulnerability trends to create a real time vulnerability detection system.
- Designed and implemented a local **Elastic Stack** pipeline that is 80% faster than previous implementation on AWS.
- Developed automated data extraction and cleaning script to further enhance client data for a more refined real-time analysis using **Python**.
- Devised and integrated a combination of **REST APIs** to strengthen data analysis of network data.

**STATE COLLEGE BOROUGH** | SOFTWARE ENGINEER　　　　State College, PA | Jan 2020 - May 2020

- Provided and implemented a solution to a sustainable problem with an industry partner in coordination with 5 cross functional professionals.
- Designed the system and infrastructure to allow automated communication between client and on-site location utilizing a combination of **Raspberry Pis** and **Arduinos** for 60% of the total budget.
- Created a system to detect and control water levels in drainage pipe that could be both smartly monitored and easily configured using **C++** and **Python** in real-time.

**MINDMATICS SDN. BHD.** | SOFTWARE ENGINEER INTERN　　　　Selangor, Malaysia | June 2019 – July 2019

- Spearheaded project prototype for early network intrusion detection system using **Elastic Stack**.
- Headed research for big data security trends and improved detection system such as DNS analysis and machine learning security.

## PROJECTS

**FLYAWAY PORTAL** ⬀　　　　JAVA, JSP, JDBC, HIBERNATE, MYSQL
A ticket-booking portal that lets people book their flights on a website built on Java web frameworks. The program includes a search form and the ability to register personal information to book flights.

**MAPREDUCE API** ⬀　　　　C, CONCURRENCY, REST API
A MapReduce API that integrates multi-threading to parallelize tasks for added efficiency and performance. Revamped API to use the most optimized multi-threading scheduling algorithm and caching algorithms.

**KITCHEN STORY WEBSITE** ⬀　　　　JAVA, SPRING, JPA, MYSQL, ANGULAR, REST API
Collection of scalable web services allowing businesses to manage products that are being sold to consumers and stored in databases. Built on a single page application providing 200% faster load times and extremely adaptable.

**SIMULATING LTE-OFDM IN MATLAB** ⬀　　　　MATLAB, WIRELESS SECURITY, NETWORKS, SIGNAL PROCESSING
A program that simulates LTE with CBC encryption and QPSK mapping. The program simulates how a binary message is first encrypted, mapped and converted into a signal that can then be projected.

**LANGUAGE LEARNER PRO** ⬀　　　　PYTHON, REST API, MACHINE LEARNING
A language learning application that combines the power of Google's Machine Learning API to promote a more on interactive means of learning a new language. Users will use their cameras, microphone and more to learn.

## SKILLS

**Languages:** Java, C++, Python, C, SQL, MATLAB, Assembly, JavaScript
**Web Development:** JPA, JSP, Servlets, HTML5, CSS3, Typescript, Node.JS, Bootstrap 4, Angular, Spring, Hibernate
**Technology:** Git, AWS, Docker, Apache, Elasticsearch, Logstash, Kibana, Filebeat, MongoDB, MySQL