

Kamran Raza

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New Jersey Institute of Technology, Newark, NJ

B.S in Information Technology - May 2018

M.S in Computer Science - August 2021

New Jersey Institute of Technology, Newark, NJ

Programmer Analyst - September 2019 – 2020

Responsible for maintaining the day to day responsibilities of the Application Information Systems department.

Supported and revised critical Groovy and PHP applications such as Admission Fall 2019, Full Time Certification, Schedule Builder, and more.

Helped implement third party solutions by Ellucian as old applications retired and continued support.

Installed and administered development environments for all the in-house NJIT application.

Generated daily reports using IBM Cognos reporting tool.

Burlington Coat Factory, Burlington, NJ

Application Development Analyst - January 2019 - September 2019

Refined the communication layer for an API client library using Java's HttpURLConnection and cURL.

Parsed returned JSON data to Java POJOs using Jersey for the API client library.

Responsible for designing and implementing the underlying hierarchical data structure for the in-house application.

Refined and remodeled the application framework to overcome Java 1.7's lack of default interface behavior.

Developed responsive GUI components adhering to business requirements with Java Swing and JDBC using the MVC pattern.

Raised and resolved defects for Allocation Management System the internal application on a day to day basis.

Related Projects

New Jersey Institute of Technology, Newark, NJ

Summer 2021 - Completed

Created an API in Python using Flask, Jinja for templating, MySQL for database, JSON to represent data, PostMan to test the API.

API supported BREAD, browse, retrieve, edit, add and delete functions.

Dockerized the application and utilized docker containers for Python(with all the requirements in requirements.txt), MySQL.

Summer 2021 - Completed

Configured and utilized Python environment using containerizations in Pycharm with Docker, from setting PATH variables to executing RUN commands.

Used Travis for the building process of the application.

Created an application for statistical calculations such as measures of central tendency alongside standard deviation and variance using Object Oriented Python.

Implemented Test Driven Development with unittest in Python.

Summer 2020 – Completed

Designed and created a simulation which aimed to simulate a working queue for two different types of randomly generated airline passengers with various traits such as Arrival and Service Time.

User was given inputs such as the number of stations to service the customers, average process time, departure and arrival time.

Spring 2020 – Completed

Designed and implemented four Hadoop clusters on Amazon Web Services to process traffic citation data of given streets to find out traits about the given streets.

Such as which streets are a hotspot for parking citation, at which time one is more likely to get a traffic citation amongst other.

Computer Skills

Python(Flask, OOP, unittest), C#(EF Core), Docker, Travis, Jekyll, Java SE/EE, Hadoop, AWS, SQL(Toad)/MySQL, Maven, Git(GitBash, EGit), HTML/CSS, JQuery, PHP, Tomcat.

Operating Systems

Linux (Ubuntu, CentOS, Ubuntu Server), Windows (7, 8.1, 10).