

# 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](#)
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## 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.
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## 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
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## Related Projects

### *New Jersey Institute of Technology, Newark, NJ*

#### [Summer 2021 - Completed](#)

- Created an API for a school to support the school's business operation.
- API was to support user, course, section and enrollment management.
- Used MSSQL for the database, EntityFramework Core to manage the database component, WEBAPI in .NET Core, IIS to host the API.
- Create seed data and migrations using EF Core that represent the schools test data and to make more complex relationships in the database model with EF.
- For each model created a DTO for creation and update that inherited the common properties from a single class.
- Complete GET, POST, PUT, PATCH, and DELETE requests for each of the models.
- Documented all the functionalities of the API with Swagger.

#### [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, utilized docker containers for Python(requirements in requirements.txt) and 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.
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## 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.

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## Operating Systems

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