

AIGO MADAKIMOVA

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Education

New York University

Masters of Science in Computer Science

Sep. 2020 – Dec. 2022

NY, NY

Eastern Mediterranean University

Bachelor of Science in Economics

Sep. 2016 – Sep 2018

FG, CY

Technical Skills

Languages: Python, R, Java, C, C++, SQL, Swift, JavaScript/TypeScript

Developer Tools: Eclipse, Google Cloud Platform, Xcode, Stata, Rstudio, OpenRefine,

Technologies/Frameworks: Linux, Spark, GitHub, Hadoop, IntelliJ

Other Tools: Git, ReactJS, HTML, CSS/Bootstrap, Apache Spark, MapReduce, Scikit-learn, Azure

Experience

NYC Department of Buildings

Software Engineer Intern

Jul 2021 – Oct 2021

NY, NY

- **Troubleshoot** and resolve countless servers related issues and have been monitoring the sites, identifying and fixing bugs/issues.
- Utilized **CRM** to provide a continuous integration service in order to automate the entire process of loading the latest build code and test files, running the tests, and generating a report of the results once per day.
- Explored ways to visualize and send a daily report of test results to team members using **Tableau**.
- Improved software security by implementing back-end features such as tracking pdf download and implemented/debugged over 10 front-end features (**REST APIs, ReactJS**).

Newmark Knight Frank

Data Analyst

Aug 2019 – Nov 2020

NY, NY

- Written **SQL** queries to pull data for the app and created measuring metrics of research studies using **MySQL server**.
- Used **Power BI** Custom visuals like Power KPI, Chiclet Slicer, Info Graphic Designer, Spline Chart to make the visuals look and understand better.
- Build a **Web Scraper** using **Beautiful Soup** Python library and extracted more than 5000 data.
- Experience in implementation of **Data Cleanup Procedures using Jupyter Notebook, Transformation data, Scripts for Excel, Stored Procedures and execution of Test plans** for loading the data successfully into an app.

Demir Kyrgyz International Bank

Investment Banking Summer Analyst

May 2016 – Oct 2016

Bishkek, KG

- Checked files attached to Documentary Collection and Documentary Credit to avoid risk of default
- Communicated with clients on their needs and advised them on appropriate products
- Helped with the client's capital operations plan and bank's reports.

Projects

NYC crime rate Big Data | *Python, Spark, OpenRefine, Hadoop* - [GitHub](#)

- Implemented spatial data analysis with **QGIS**.
- Used **Data Profiling** and **Tableau** to visualize the trends of the residuals of population, and crime neighborhoods.
- Created insightful and actionable reporting that highlights the statistically significant association between type of crimes and neighborhoods using by **PySpark**.

Database system | *PostgreSQL, Express.js, Node.js, React* - [GitHub](#)

- I designed DBMS, data indexing, complex query generation, use of view and function triggers with **PostgreSQL**.
- Integrated applications using designing database architecture, server scripting and establish connectivity with network systems.

Airline Reservation System GUI | *Java, Eclipse*, - [GitHub](#)

- Used **Java** to create a **GUI** that supports actions such as creating an account, searching, booking, time slot, etc.
- Implemented **object-oriented programming** practices such as inheritance to create different account types and databases.
- Developed a server using a **Multithreaded** concept with **socket** communication.

Certificate

- NYU Data Science Bootcamp(2020)
- Bloomberg Market Concepts Certificate (2020)
- CCA Swift Level 1 and Level 2 Certificate (2021)