Shaima Hussaini

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EDUCATION

University at Albany   Aug. 2021 – May 2024
B.S. in Computer Science, Minor in Statistics   *Albany, NY*
GPA: 3.96
Activities: Society of Women Engineers (Secretary), IEEE
Coursework: Artificial Intelligence, Data Mining, Database Systems, Computer Vision, Software Engineering, Design and Analysis of Algorithms, Operating Systems, Computer Security

TECHNICAL SKILLS

Languages: Java, Python, C, PostgreSQL, MATLAB, HTML, CSS, JavaScript, R, Bash
Tools: Git, Amazon Web Services, Terraform, Postman, Datadog, Docker, Jira, Maven, IntelliJ, Visual Studio Code, Eclipse, PyCharm, Jupyter Notebook, RStudio
Libraries: NumPy, Scikit-Learn, Pandas, Matplotlib, TensorFlow, Apache POI

EXPERIENCE

Data Engineer Intern   May 2023 – Aug. 2023
Toyota Connected North America, Inc.

- Worked extensively with Amazon Web Services (AWS) to develop and deploy application infrastructure for collecting and processing data from millions of vehicles, incorporating API Gateways, AWS Lambda applications, DynamoDB tables, Kinesis Streams, and S3 Buckets, built through Terraform.
- Performed regular bug fixes and implemented code updates in Java within an agile-development environment.
- Built over 300 Datadog monitors for all applications, enabling real-time performance analysis and proactive issue identification to enhance the user-experience.
- Developed over 100 comprehensive end-to-end pipeline and individual application automation tests. Significantly enhanced test coverage and improved efficiency of team by reducing need for manual testing efforts.
- Presented deliverables and key results to product teams and executives at a biweekly basis.

Fellow in RNA Institute's Bioinformatics Program   Jun. 2022 – Aug. 2022
Research Foundation of SUNY – RNA Institute

- Conducted in-depth analysis of RNA sequences and chemical reactivity data and developed a pipeline to accurately model RNA secondary structures.
- Utilized R to perform gene expression analysis on extensive biological datasets and gene sequences.
- Showcased research findings at the RNA Institute's Summer Symposium and won Best Presentation Award.

Undergraduate Research Assistant   May 2022 – Aug. 2022
Research Foundation of SUNY – RNA Institute

- Developed a Java program that compares data generated from mass spectrometry experiments to the lab's database with various parameters set by the user from a GUI.

PROJECTS

Analytic Features for IQEngine | *Python, FastAPI, React* | Github   Jan. 2024 – May 2024

- Developed machine learning detection tool, 3D visualization feature, and fusion techniques to analyze spectrum data for the IQEngine platform.
- Received Best Computer Science Capstone Project Award.

Handwritten Text Recognition (HTR) | *Python, TensorFlow* | Github   Oct. 2023 – Dec. 2023

- Implemented HTR system by Arthur Flor that recognizes handwritten text using Python and TensorFlow. Trained on an offline dataset and added image preprocessing to improve results.

Web Portfolio | *HTML, CSS, JavaScript* | shaima-h.github.io   Sep. 2022 – Present

- My responsive, personal website to showcase myself and my projects.