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: 3.97
Activities: Society of Women Engineers (Secretary), IEEE, Women in Cybersecurity
Coursework: Data Mining, Database Systems, Artificial Intelligence, 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, Apache POI

EXPERIENCE

Software Engineering Intern — May 2023 – Aug. 2023
Toyota Connected North America, Inc.
- Worked extensively with Amazon Web Services to develop and deploy application infrastructure consisting of API Gateways, AWS Lambda applications, DynamoDB tables, Kinesis Streams, and S3 Buckets using 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.

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

Handwritten Text Recognition (HTR) | *Python, TensorFlow* | Github — October. 2023 – Present
- Implemented HTR system by Arthur Flor using TensorFlow 2.x and trained on an offline HTR dataset.
- Recognizes the text contained in the images of segmented texts lines.

Book Recommendations | *Python, NumPy, Scikit-Learn, Pandas* — Aug. 2022 – Present
- Built a search engine and system that makes book recommendations to the user based on their liked books.

Web Portfolio | *HTML, CSS, JavaScript* | shaima-h.github.io — Sep. 2022 – Present
- My responsive, personal website to showcase myself and my projects.

Programming Language Interpreter | *Java* — Sep. 2022 – Dec. 2022
- Developed a lexer that generates tokens using a state machine, a parser that processes the tokens and returns an abstract syntax tree, and an interpreter that executes functions.