**Rami-Lionel Kuttab**

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**EDUCATION**

**Syracuse University**, School of Engineering and Computer Science, Syracuse, NY August 2022 – May 2024 **M.S. in Computer Science**

*Relevant Coursework:* Operating Systems, Algorithms, Data Science, Computer Architecture, Structured Programming, Natural Language Processing

**Syracuse University**, School of Engineering and Computer Science, Syracuse, NY August 2018 – May 2022

**B.S. in Computer Science**

*Relevant Coursework*: Data Structures, Algorithms, Agile Development, Database, Object Oriented in C++, Introduction into A.I., Operating Systems, Machine Learning, and Physics

**WORK EXPERIENCE**

**Software Developer**, BGC Partners, New York, New York June 2022 – August 2022

* Developed and thoroughly tested the code, continuously refining and rewriting it as necessary. Collaborated with other programmers involved in the project, ultimately optimizing the code for a 25 % reduction in running time by transitioning from series to parallel implementation.
* Researched, designed, and implemented three new software programs that added functionalities to the trading system.
* Using Python and Pandas Library I built software for my colleagues to assist them in figuring out when the versions have been updated by automatically sending out an email.
* Participated in +50 code reviews to improve code quality that increased performance by 12% which promoted professional development.

**PROJECTS**

## WhatsApp Clone – Full-Stack Developer July 2021 – August 2021

* Developed full-stack clone for WhatsApp that enables users to send text messages to each other in real time.
* Designed and implemented a smooth user interface using React Native components and styling, while ensuring the app’s compatibility with multiple devices.
* Utilized Firebase’s real-time database authentication services for back-end, including secure data storage and messaging services for real-time chat.

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## College Events – Front-End Developer February 2021 – June 2021

* Built, assessed, and produced a website using HTML, CSS, and JavaScript to produce an event organizing website for college students that had an average daily visitor of 60 college students.
* Utilized UML diagrams to develop a user-friendly interface using HTML and CSS with Bootstrap
* Led a team of three college students and followed agile development scrums with colleagues to ensure timely completion and release of the project.

## Spotify Recommendation System – Data Scientist August 2022 – December 2022

* Used Collaborative Filtering to recommend songs based on the overlap of songs in playlists in the dataset.
* Utilized Spotify Web API to fetch data from the Spotify music catalog and manage user’s playlists and saved music.
* Implemented my own playlist and compared it to Spotify Web API to get recommendations on the top 30 related songs from the Web Spotify API to the current playlist created.

**TECHNICAL SKILLS**

**Programming Languages**: Python, R, SQL, Java, HTML, Oracle, C, C++, PHP, CSS, JavaScript, Ruby

**Database Management**: SQL, PostgreSQL, SQLite

**Software**: MS Excel, MS Word, MS PowerPoint, Visual Studios

**LEADERSHIP EXPERIENCE**

**Campaign Leader**, National Social Service Scheme, Beit Hanina, Israel Summer 2019

* Administered garbage segregation implementation program with 15 volunteers for a village to create awareness.
* Communicated with the trash company to collect solid garbage waste from the rural parts of Beit Hanina.
* Devised a wet waste management process to generate organic manure with zero cost of production.