

RAMI-LIONEL KUTTAB

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WORK EXPERIENCE

BGC Partners, New York, NY: Software Engineer Intern

June 2022 - August 2022

- Achieved 25% faster processing by switching to parallel implementation, based on measured execution times and collaborative programming.
- Realized 40% better data processing by creating three new software programs that outperformed the previous system in processing speed and resource use.
- Enhanced team efficiency by automating version tracking and emails using Python and Panda's library, resulting in average time savings of 1 hour per team member per update cycle and smoother project progression.
- Conducted 50+ code reviews, elevating code quality and performance by 12%, while fostering team growth through collaborative feedback and knowledge sharing.

EDUCATION

M.S., Computer Science

Graduated May 2024

Syracuse University, Syracuse, NY

School of Engineering and Computer Science

Relevant coursework: Algorithms, Data Science, Operating System, Natural Language Processing, Computer Architecture

B.S., Computer Science

Graduated May 2022

Syracuse University, Syracuse, NY

School of Engineering and Computer Science

Relevant coursework: Data Structure, Machine Learning, A.I., Object Oriented in C++, Algorithms, Agile Development, Software Development

PROJECTS

Web Scraper CLI - Backend Software Engineer

April 2024 - May 2024

Developed a command-line interface tool for web scraping significantly improving data collection efficiency.

- Designed and implemented a robust backend in Python, utilizing BeautifulSoup and Scrapy, increasing scraping speed by 35%.
- Build a RESTful API using Flask to handle scraping requests and ,manage task queues, reducing manual data extraction efforts by 40%.

Content Delivery Network (CDN) Simulator - Backend Software Engineer

January 2024 - March 2024

Developed a Python-based simulator for large-scale content delivery networks, enhancing network performance analysis.

- Refactored the codebase to enable parallel execution, reducing simulation runtime by 40%.
- Implemented robust data handling using NetworkX and matplotlib for visualizing network topologies and performance metrics.

Uber-Clone - Full-Stack Developer

February 2023 - April 2023

Collaborated with college teammates to design, code, and deploy a React Native ride-hailing application similar to Uber.

- Engineered a robust Redux architecture, enabling efficient state management and reducing app-wide data retrieval time by 40%.
- Implemented real-time geolocation tracking to provide accurate driver and user locations, reducing driver wait times by 15%.

Hospital Database - Data Engineer

February 2022 - April 2022

Designed and built a comprehensive SQL database for hospital operations, managing data for normal, emergency, and COVID-19 cases, resulting in a 25% improvement in data retrieval speed.

- Implemented real-time data updates using SQL triggers, reducing manual data entry efforts by 40% and increasing data accuracy by 15%.
- Developed interactive Tableau dashboards that contributed to a 20% reduction in billing errors and enabled timely decision-making by providing stakeholders with up-to-date insights into patient demographics and treatment trends.

TECHNICAL SKILLS

Programming: Python, C, C++, C#, Java, HTML, CSS, JavaScript, Oracle, Linux, TypeScript, React Native, Swift, Julia, Rust, Django, Tailwind

Database Management: SQL, PostgreSQL, SQLite

Software: Docker, AWS, Azure, Visual Studio

Certifications: AWS Certificate for Developers

LEADERSHIP EXPERIENCE

Campaign Leader, National Social Scheme, Beit Hanina, Israel

- 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.