

# Mazen Zarrouk

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## EDUCATION

City College of New York, Grove School of Engineering

05/2025

Bachelor of Science in Computer Science

- **Relevant Courses:** Algorithms, Data Structures, Operating Systems, Software Engineering, Software Design in Java, Theoretical Computer Science, Databases, Object Oriented Programming in C++, Image Processing, Computer Graphics, Probabilities, Statistics, Discrete Math, Linear Algebra, Calculus 1-3.

## SKILLS

- **Languages:** C++, Java, JavaScript, HTML, CSS, SQL, Python, Git, DAX, M
- **Technologies:** Visual Studios, MySQL, Salesforce Ecommerce Cloud, Google Big Query, Microsoft Power BI, Google Analytics, IntelliJ, AWS, Google Cloud, Next.js, React.js, GitHub, Microsoft 365.

## EXPERIENCE

LVMH, New York,

Data Project Manager Intern, LVMH Beauty Tech Division

05/2024 - 08/2024

*Ticket Reporting Analytics Dashboard for **Benefit Cosmetics***

- **Business impacts:** halved ticket resolution times, decreased manual report generation by **90%** (1 month billable hours saved annually), stimulated revenue growth for US Benefit stores and established a unified platform for **real time incident analysis**.
- Plans to **scale** this application for other brands within the **LVMH portfolio**, like Parfums Christian Dior, Givenchy, Kendo, Acqua di Parma; and **scaling** for LVMH internal support.
- Architected an **ETL process** to standardize raw data, ensuring accuracy across many data sources.
- Crafted compelling visuals in Power BI while delivering real time analytical capabilities through interactive features.
- Employed a **project management** methodology by setting milestones, timelines, action task due dates, and facilitating weekly meetings with teams at Benefit and LVMH.
- Deployed the application into production for all LVMH Beauty Tech employees and Leadership within Benefit Cosmetics.

The Difference, Scarsdale, NY

Backend Software Engineering Intern

06/2023 - 08/2023

- Optimized the backend infrastructure of a health startup by designing and implementing a schema in MySQL, reducing data duplication by **18%** and improving **efficiency**.
- Managed data integrity through schema changes, migration scripts, and validation protocols. Increased data query performance by **22%** by building a daily aggregated results table.
- Migrated legacy data from key tables with zero data loss, utilizing optimized INSERT/UPDATE queries. Further optimized food table performance by **22%** and reduced storage by **10%** through column optimization.

## PROJECTS

WebWealth – Financial Forum Platform

04/2024 - 05/2024

- Designed and developed a full stack online forum using **React** and **Supabase**, focusing on stocks, real estate, and cryptocurrencies.
- Implemented key features, including **live data feeds**, interactive **commenting systems**, and **secure user authentication**, enhancing platform functionality and security.

Yapper – Social Media Web Application

10/2023 - 12/2023

- Led a 5-developer **agile full stack** team to deliver a functional **minimum viable product** matching key Twitter features within a 2-month timeframe.
- Engineered **core functionalities** enabling users to post messages, follow other users, like and comment on posts facilitating community engagement.
- Constructed reusable **React components** like user profiles and post cards enhancing developer productivity.
- Designed Supabase **database schema** to store user data, posts, followers, and interactions. Implemented **authentication** for users to securely sign up and login to the application.