

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, NY

Data Project Manager Intern, LVMH Beauty Tech Division

05/2024 - 08/2024

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

- Led the design and implementation of a **full-stack** analytics dashboard for retail incident management.
- Architected an **ETL process**, ensuring data accuracy and uniformity across multiple support systems.
- Conducted **interviews with end users** to align application functionality with operational requirements.
- Crafted intuitive dashboard elements with **real-time analytical capabilities**.
- Deployed the application into production, **halving** ticket resolution times and reducing manual report generation by **90%**.
- Plans underway to **scale** this application across other LVMH Beauty brands and internally for LVMH employees.

*Ecommerce KPI Application for **Parfums Christian Dior***

- Centralized ecommerce datasets from Salesforce, Big Query, Google Analytics and Power BI into a master database.
- Transformed static reports into a **dynamic and modern dashboard system**, enhancing stakeholder navigation through ecommerce trends tied with sales metrics, site traffic patterns, order fulfillment rates, and customer service interactions.
- **Reduced report generation by 70%** while creating a single version of truth derived from **multifaceted data streams**.
- Supports in **OPEX and CAPEX** decision making by executives within LVMH and Christian Dior by uncovering **KPIs** essential for future revenue growth at Parfums Christian Dior.

The Difference, Scarsdale, NY

Backend Software Engineering Intern

06/2023 - 08/2023

- Designed and implemented new normalized database schema for health startup using MySQL, reducing data duplication by over **eighteen percent** across eight core tables.
- Led a team to develop macro nutrition tracking feature, delivering under deadline.
- Built daily aggregated results table, cutting report generation time from **two minutes** to **five seconds**.
- Migrated legacy data with **zero percent** data loss, optimizing query performance by **22%**.

PROJECTS

WebWealth – Financial Forum Platform

04/2024 - 05/2024

- Designed and developed a full stack online forum using **React** and **Supabase**, focusing on financial topics like 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.