

Nabil Fayak

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EDUCATION

CUNY Baruch College, Zicklin School of Business

New York, NY

Computer Information Systems B.B.A.

Expected: May 2024

SKILLS

Programming: *Proficient:* Python · HTML/CSS · React · React Native · SQL | *Intermediate:* JavaScript · NodeJS · Swift · Gatsby

Software: AWS · Git · GCP · Oracle · Snowflake · DBT · Airflow · Jira · Asana · Docker · Kubernetes · GitLab · Microsoft Office

Certifications: [AWS Cloud Practitioner Certificate](#) (2021) | [Web Development Certificate](#) (2021)

EXPERIENCE

Artificial Intelligence / Machine Learning Intern

Jul 2023 - Sep 2023

ALTERYX

New York, NY

- Built [CheckMates](#), an Alteryx Open Source Python library, enhancing data validation and error detection capabilities to preemptively identify and address issues in data before modeling
- Released two major CheckMates versions on [PyPi](#) using Python Dependency Manager to boost library performance by 16%
- Revamped the development process by creating 9 unit tests using PyTest and configuring 6 GitHub Actions workflows to automate the CI/CD pipeline and ensure library security
- Accelerated CheckMates job runtime in the machine learning platform by removing unnecessary dependencies and modularizing tasks to achieve a 400ms reduction in processing time

Cloud Data Engineering Intern

Jul 2022 - Sep 2022

BOXED

New York, NY

- Collaborated on data transformation workflows with a team of 5 data engineers using DBT to store and access hundreds of complex models from Snowflake Data Warehouse for 500+ users
- Generated 5000+ lines of SQL Queries while implementing relevant aliases, CTEs, and concise commenting to ensure proper SQL formatting and readability
- Employed Python DAGs on Airflow for task automation, streamlining over 70 processes and saving 37 hours per month
- Innovated customer retention system by revamping social media presence, referral system, giveaways, unboxing experience, and customer feedback loop to improve customer satisfaction

Software Engineering Data Analytics Intern

Mar 2022 - Jul 2022

MTA (Metropolitan Transit Authority)

New York, NY

- Formulated 50 data visualizations using Streamlit Python library, Oracle, and GitLab to track bus-route performance metrics
- Optimized 24 bus routes by reducing latency between live bus stop pings to improve bus-route data mapping efficiency by 45%
- Streamlined data analytics dashboard by creating home navigation page in React.js to categorize and display 100+ data visuals

Cloud Software Engineering Intern

Aug 2021 - Dec 2021

THE DECK

New York, NY

- Constructed React Web Application using AWS, Material UI, and Bootstrap, to create a live education platform that hosts 100+ students to complete technical coding course material and assignments asynchronously
- Integrated AWS Cognito to complete user authentication processes by using DynamoDB to create and handle database pools, along with restricting simultaneous account access on multiple devices
- Developed emailing feature using AWS Lambda and SNS to send course announcements asynchronously with 99% service uptime

Software Engineering Web Development Intern

Jul 2021 - Sep 2021

CEO TRUST

New York, NY

- Worked in an agile environment with a team of 7 using Wild Apricot, HTML, CSS, and JavaScript to overhaul entire company website leading to improved functionality and a modern aesthetic
- Reduced website load-times by 50% by using Google Lighthouse to audit site and identify potential runtime saves to eliminate render-blocking resources, reducing unused JavaScript to increase efficiency, and preloading key requests
- Improved website search engine traffic and implemented advanced SEO (Search Engine Optimization) techniques by improving site structure, content, keywords and meta-tags resulting in an 80% increase in overall website traffic