

# MUHAMMAD HASNAIN SHABBIR

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## EDUCATION

### B.S. Computer Science | City College of New York (CUNY)

Dean's List, 3.5 GPA / December 2024

- Grove Scholar 2023 | Grove School of Engineering at City College of New York
- Colin Powell Fellow in Leadership and Public Service 2022 | Colin Powell School at City College of New York

## SKILLS

**Programming Skills:** React JS, JavaScript, Python, C++, SQL, NoSQL, Java, CSS, HTML, Bootstrap & Git

**Proficient Technology:** [AWS Cloud Certified](#), Google IT Certification, PostgreSQL, Figma, Tableau, Jira, Postman & GitHub

**Relevant Coursework:** Algorithms, Data Structures, Object Oriented Programming, Software Engineering & Databases

## EXPERIENCE

### Software Engineer Intern | Mastercard

Arlington, VA / June 2023 - August 2023

- Developed frontend client interface in a team of 3 which led to 18% (8 minutes per record) faster retrieval of customer records using **React JS** and **Rest API** from a Java server. Previously clients would use a sandbox environment.
- Implemented UI validation and presented client and server-side errors using **Toast** to avoid invalid API request calls.
- Designed and developed internal graphical **dashboards using PostgreSQL, Splunk, and Tableau**. Led to faster detection of service downtimes and provided information on error locations.
- Designed an analytics dashboard for a team of 6. Responsible for creating graphs and computation for current waste production from Mastercard which will track Mastercard's goal of achieving Net Carbon Zero by 2050.

### Software Engineer Intern | STEM Institute (CCNY)

New York, NY / July 2022 - June 2023

- Developed and documented the use of DreamClass software for 900+ students by integrating Jotform and Google Sheets, reducing **data cleaning by 25%** (36 hours per enrollment cycle). Saving \$24,000 annually.
- Integrated the student data in File Maker Pro and presented information by developing interactive dashboards through Jotform.
- Created reports using MS Access, analyzed data, and discovered trends to present to stakeholders and investors.

### Co-Founder & Frontend Software Engineer | ParkIt

New York, NY / January 2022 - June 2022

- Developed an MVP for a web application in a team of 4 using ReactJS that enables NYC residents to learn parking signs while notifying the users about restricted parking hours. Used **Bootstrap** for styling and **JavaScript** for the backend.
- Designed the wireframe using Figma and implemented the web application design using Bootstrap.
- Implemented a QR code scanner feature to locate customers for parking guidance when a user scans a parking sign.

### IT Assistant | Sweet Vegan Chocolates

New York, NY / August 2021 - July 2022

- Redesigned and developed the order fulfillment process through Python scripting and SaaS automation resulting in **saving 65 minutes in labor cost** per order.
- Developed an Excel model to automate the production quantity for optimal outcomes, **increasing profit margins by 12%**.
- Launched a middle-market product to expand our offering to a new customer base, resulting in a 15% increase in sales.

## PROJECTS

### Team Lead (Team of 3) & Full Stack Software Engineer | Meetsync - CUNY Tech Prep

[GitHub](#)

Developing an MVP for a web application where users can find common time to meet while syncing Google Calendar.

- Developing user authentication using Firebase and storing time data in MongoDB.
- **Technology:** ReactJS, Sequelize.js, Firebase, Jest, MVC, Express.JS, REST API, MongoDB, & Node.JS

### Team Lead (Team of 5) & Frontend Software Engineer | Computer E-commerce

[GitHub](#)

- Developed E-commerce frontend using ReactJS which included user verification, product & content moderation, and checkout.
- Developed an algorithm to display computer parts relative to each other based on customer selection.
- **Technology:** ReactJS, JavaScript, Flask, Python, Bootstrap, Figma, HTML & CSS

### Data Technician Bootcamp

- Applied Python concepts in AWS and DynamoDB to build databases and manipulate data using Pandas.
- Utilized AWS CLI to initiate and stop EC2 instances and S3 Buckets, and used Sandbox Evt to develop Python scripts.
- **Technology:** AWS, NoSQL, DynamoDB, Python, JSON, & Pandas Framework

## AWARDS & AFFILIATIONS

- BASTA's Google Software Engineer Program | Google
- Google Cultivate Student | Google
- Web Track Fellow | CUNY Tech Prep
- [Future in Finance Fellow](#) | Centerbridge Investment Bank
- Web Track 101 | [CodePath](#)
- Blackstone Launchpad Incubator Challenge Winner | Blackstone

September 2023  
March 2023  
August 2023  
February 2023  
January 2023  
October 2022