# 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
- Recipient of Grove School of Engineering Scholarship, SHPE Engineering Scholarship & Colin Powell Fellowship

**Programming Skills:** React JS, JavaScript, Python, C++, SQL, NoSQL, Java, CSS, HTML, Bootstrap & Git Bash
**Proficient Technology:** AWS Cloud Certified, NodeJS, MongoDB, PostgreSQL, Kubernetes, Tableau, Jira, & Postman

## EXPERIENCE

**STEM Institute of City College | Software Engineer**   New York, NY / July 2022 - Present
- Real-time data integration of the learning management system and Google Sheets, improved student data accuracy **reducing data cleaning and duplication by 25%.**
- Automated reports and data processing to build interactive dashboards using DreamClass API, SQL, and Tableau.
- Managed and trained a team of 8 college assistants to maintain 1000+ student learning management systems.

**Mastercard | Software Engineer Intern**   Arlington, VA / June 2023 - August 2023
- Developed a **client-facing web application feature using React JS and a REST API** to retrieve data from a Java service in a filterable format, resulting in faster data access for clients who previously were using sandbox environments.
- Implemented UI validation and presented client and server-side errors using Toast to avoid invalid API requests.
- Designed and developed internal graphical **dashboards using PostgreSQL, Splunk, and Tableau**. Led to faster detection of service downtimes and provided information on error locations.

**Microsoft | Copilot AI Customer Researcher**   New York, NY | August 2023 - September 2023
- Consulted Microsoft's UX/UI team with user feedback on the effective use of Copilot AI in Microsoft Azure CLI.
- Provided training to Microsoft's UX/UI team on Azure Portal and the use of Copilot AI within Microsoft Azure Portal.

**Sweet Vegan | IT Assistant**   New York, NY | August 2021 - June 2022
- Increased efficiency in the order fulfillment process by 86% through automation using SaaS services; Zapier, Automate.io, and Squarespace API. **Resulted in savings of $9,000 annually**.
- Built an Excel model to automate the production quantity for waste reduction, **increasing profit margins by 12%.**

## PROJECTS

**Bloomberg LP | Tech Lab Fellow & Backend Software Engineer**
- Utilized Python to design a messaging queue system using RabbitMQ, enhancing real-time data processing channels.
- Collaborated with Bloomberg engineers in a team of 4 to build an application using RabbitMQ and Docker.

**City College Bus Tracker | Fullstack Software Engineer**
- Built CI/CD pipelines using GitHub Actions and Terraform to automatically update the codebase in AWS.
- Integrated MongoDB as a storage for bus routes and used JavaScript to determine the next arrival for the buses at City College.
- **Technology:** ReactJS, Supabase, GitHub Actions, Jest, Versel, Terraform, REST API, MongoDB, CI/CD & Node.JS

**Meetsync - CUNY Tech Prep | Backend Software Engineer & Team Lead**
- Developed MVP in a team of 3 for a web application using Agile methods where users can find common meeting times.
- Developed user authentication using Firebase and stored time data in MongoDB while syncing it to Google Calendar.
- **Technology:** ReactJS, Firebase, Jest, Express.JS, Terraform, REST API, MongoDB, CI/CD & Node.JS

**Computer E-commerce | Frontend Software Engineer & Team Lead**
- Built an E-commerce web app using ReactJS, including user verification, product & content moderation, and checkout.
- Implemented an algorithm to display computer parts relative to the customer's selection, making it easy to buy bundle products.
- **Technology**: ReactJS, JavaScript, Flask, Python, Bootstrap, Figma, HTML & CSS

**Amazon Web Service (AWS) | 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 environment to develop Python scripts.
- **Technology**: AWS, ECS, NoSQL, Lambda, DynamoDB, Python, JSON, Docker, PaaS, IaaS & Pandas Framework

## AWARDS & AFFILIATIONS

- Google | 2x BASTA's Google Software Engineer Program
- Google | Google Cultivate Student
- Blackstone Launchpad | Incubator Challenge Winner
- Blackstone Launchpad | Innovation Sprint Winner
- CUNY Tech Prep | Web Track Fellow
- Centerbridge Investment Bank | Future in Finance Fellow
- CodePath | Web Track 101 & Technical Interview Prep
- CUNY Startup | Top 4 out of 100 Startups Pitch Winner