Amir Hamza

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EDUCATION

Brooklyn College (BC), City University of New York (CUNY)   Brooklyn, NY
Bachelor of Science in Computer Science   Expected May 2025

RELEVANT EXPERIENCE

The Difference   New York, NY
Software Engineer Intern   Jun 2024 – Present
- Debugged and optimized data parsing logic for a Dart/Flutter application, ensuring accurate retrieval and handling of API data for weight and target weight measurements.
- Led a team to update the application's backend with new endpoints and state management, ensuring seamless integration of new data from the backend.
- Developed a new endpoint using Laravel to load all weight data via the measurement weight endpoint, enhancing data retrieval processes.
- Implemented data validation, debugging techniques, and improved error handling for data retrieval processes, ensuring data integrity and enhancing the robustness and reliability of the application's weight tracking feature.

Headstarter AI   New York, NY
Fellow, Software Engineer   Jul 2024 – Present
- Built 5+ AI apps and APIs using NextJS, OpenAI, Pinecone, StripeAI with 98% accuracy as seen by 1000 users.
- Developed projects from design to deployment leading 4+ engineering fellows using MVC design patterns.

CUNY Tech Prep   New York, NY
Fellow, Software Development   Jul 2023 – Jun 2024
- Selected for a competitive web development fellowship with students from across the 11 CUNY senior colleges where Fellows create technical projects using tools such as React, Node + Express, and PostgreSQL.
- Participate in weekly courses and learn industry best practices for design, implementation, and deployment such as MVC, version control with Git/GitHub, agile & Scrum with Trello and Slack, test driven development, and CI/CD.

PerScholas Software Engineer Bootcamp   *New* York, NY (Remote)
Fellow, Software Engineer   Nov 2022 – Jan 2023
- Collaborated in groups to solve problems focusing on the MERN Stack, JavaScript, HTML, and CSS based programming.
- Presented a final project and code to the whole class, received feedback and successfully implemented new ideas.

PROJECTS

CunySphere, *[https://cunysphere.onrender.com]*   Sep 2023 – May 2024
- Developed a full-stack web application in a team of four to enable and enhance connectivity and interactive communication among CUNY students.
- Implemented Google's Firebase to enable real-time chat room functionality, ensuring instant communication and synchronized message exchange across all devices.
- Developed the Career Connect page, enabling users to securely upload resumes to an Amazon S3 bucket. Implemented seamless retrieval and storage functionality, while also facilitating user feedback on peers' resumes.
- Utilized authentication with bcrypt for enhanced security leveraging PostgreSQL with Sequelize for data management which allows user account creation.

Relevant Coursework:

Discrete Structures and Algorithms, Java Programming, Database Fundamentals, Data Structures, Computer Organization

SKILLS

Programming: Java, JavaScript, React, Bash, HTML, CSS, Node.js, Express, SQL
Technologies: Xcode, Git/GitHub, OS X, Unix, Linux, Heroku, MongoDB, MySQL, PostgreSQL, Firebase, Sequelize, AWS, Jest
Certifications: PerScholas FullStack Software Engineer Bootcamp (Graduated Jan 2022)
Spoken Languages: Urdu (Fluent), Hindi (Conversational)

ASSOCIATIONS

Brooklyn College Computer Science Club   Aug 2020 – Present