Fabiha Islam

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EDUCATION

Barnard College of Columbia University | New York | *BA in Computer Science* — May 2025

Sel. Coursework: UI Design, Introduction to Databases, Mobile App Development | Higher Education Opportunity Scholar

SKILLS

Technical: Python, Java, C, Javascript, Swift, SQL (Postgres, MongoDB), HTML/CSS, Agile, Bootstrap, Linux, REST APIs

Frameworks and Tools: Git, VSCode, PyCharm, IntelliJ, React, Node.js, Flask, Vercel

Soft Skills: Communication, Problem-solving, Collaboration, Leadership, Adaptability, Creativity

TECHNICAL EXPERIENCE & RESEARCH

Fundamentals of Computer Systems, Columbia University | New York | *Teaching Assistant* — September 2023 - May 2025

- Provided aid, answered course-related questions, led exam review sessions and graded assignments and exams for over 400 students per semester (4 semesters; contract renewed based on performance)
- Reinforced core computer systems concepts (digital logic, circuit design, basic processor architecture) for students
- Met weekly with fellow Teaching Assistants and professors to discuss upcoming course content and student progress

Soros Lab, Computer Science, Barnard College | New York | *AI Research Assistant* — May 2024 - January 2025

- Conducted faculty-mentored research on bio-inspired AI algorithms in Python using Gymnasium's API
- Parallelized testing with Python's multiprocessing library to utilize multiple cores, resulting in ≈6.675 testing speed-up
- Presented findings in a poster session to 50+ academics and industry leaders

Women in Computer Science | New York | *DivHacks Organizing Team Member* — May - October 2024

- Collaborated with Tech Team to create designs for the DivHacks website
- Coordinated hackathon advertisement on social media, boosting Instagram clicks & applicants by >100 users

Girls Who Code & Pluralsight | Remote | *Work Prep Participant* — May 2023 - June 2023

- Selected to participate in GWC's 3-week career readiness program with senior leaders and engineers at Pluralsight
- Developed facility with Agile, DevOps, and professional & personal goal-setting
- Completed workshops on hands-on application, asynchronous technical courses, and approaches to learning

PROJECTS

Ramen Academy | *UI Design* — March - May 2025

- Built an interactive, media-based web app that teaches users how ramen toppings affect flavor through quizzes with feedback
- Prototyped user flows, conducted usability testing, and implemented the UI using Typescript, React, and Bootstrap

Barnumbia | *Mobile App Development (iOS)* — November - December 2024

- Developed and presented a novel, full-stack SwiftUI, cross-campus dining application that includes meal information and a nutrition tracker to current Apple employees and 100+ student developers
- Created Figma prototype, designed the final UI, and integrated APIs (Google Places, USDA, MapKit) and web scraping

Down Ballot | *Columbia University Divhacks 2024* | *3rd in Civics Division* — October 2024

- Engineered a website that provides comprehensive candidate information using Flask, JQuery, Bootstrap, and APIs (OpenAI, Google Civic Information, and Google Places) in Python, Javascript, and HTML/CSS

Keeper | *Full Stack Web Development* — October - December 2023

- Built a website simulating Google Keep's functionality, allowing users to create and delete notes that are saved to a database.
- Developed frontend with React & HTML/CSS; backend with Node.js; database with MongoDB; deployment with Vercel

LEADERSHIP

Barnard Student Government Association | New York | *Vice President of Equity* — September 2024 - May 2025

- Managed issues of equity and organized diversity initiatives to foster an inclusive and welcoming campus community
- Collaborated with senior college officials to advocate for student needs and strengthen communication channels between the student body and college leadership
- Coordinated weekly meetings with 15+ committee members to discuss progress on tasks and upcoming deadlines