

Swati Barua

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Education

NYU Tandon School of Engineering – Brooklyn, NY

Fall 2018

Bachelor of Science in Computer Science, Minor in Integrated Digital Media

Merit Based Honors: UFT Scholarship Fund, NY-AI Merit Scholarship, School of Engineering Scholarship, Poly WEST Scholarship, TRIO Grant

Skills

Computer Languages: MySQL, PHP, HTML/ CSS, C++, Python, Git/GitHub

Software: Notepad++, Windows, Axure, MS Word/Excel/PowerPoint, Slack

Language: Bengali, English

Miscellaneous: Photography, Gardening

Work

Experience

Undergraduate Summer Researcher – NYU Tandon, Brooklyn, NY

Summer 2016

- Plotted and programmed Poly's history against an augmenting reality interface using Layar's API
- Implemented table definitions according to Layar's specifications and project's needs, sorted through Poly's archive to identify relevant data points, wrote insertion queries and executed other queries using PHP's prepared statements
- Wrote a seven page documentation of the whole project, published an [abstract](#) and presented in a poster session

Databases/ Data Analysis/ Calculus II Tutor – TRIO, Brooklyn, NY

Fall 2014 – Fall 2016

- Provided individual tutoring to four undergraduates over a course of three semesters
- Instructed for about sixty-four hours according to students' strengths and needs
- Updated counselors on potential academic or emotional concerns

Projects

[NYC MUSEUMS](#) (PHP, MySQL, HTML/CSS)

Fall 2016

- Implemented using Layar's API, located all thirty-two museums in Manhattan and provided additional information in an augmenting reality or mapped interface

[Chat Box](#) (HTML, CSS)

Spring 2016

- Implemented frontend interface of: a chat box, login/logout page and a settings feature that deletes messages after a number of user-specified days

Club Hub (PHP, MySQL, HTML)

Spring 2015

- ClubHub, a web application for all student-related information on after school clubs
- Wrote application code that supported the following features and pages: homepage, login, logout, posting/viewing comments, and posting/signing up/viewing/checking club events
- Designed E-R model for its database, converted E-R model to relation schema and implemented table definitions and queries in MySQL
- Enforced complex constraints using PHP's prepared statements: prevented actions based on users' status, stored relevant session variables until session termination, authenticated the session, etc

Leadership

Experience

Volunteer Instructor – Girls Who Code, Staten Island, NY

Fall 2014

- Taught a project based curriculum related to technologies in everyday life to about twenty-five high school girls and boys for more than thirty-two hours
- Taught fundamental programming concepts and provided debugging feedbacks

Youth Board Member – Girls Write Now, INC, NY, NY

Fall 2013 – Fall 2015

- Wrote proposals and plans that would benefit and meet mentee's needs but fall outside GWN's jurisdiction and could easily be implemented by alumnae
- Informed organization's Board Members about GWN's recent activities and offered perspective from a former mentee and alumnae

Student

Activities

Member – User Experience Design Club at NYU. Brooklyn, NY

Fall 2015 – Present

UX/Design Blog: <https://thoughtelevators.wordpress.com/>

Poetry Reader – Transcendence Magazine. Internet-Based Publication

Spring 2015 – Present