

Swati Barua

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EDUCATION

New York University Tandon School of Engineering – Brooklyn, NY

Bachelor of Science in Computer Science, Minor in Integrated Digital Media (Design)

Achievements: 2019 GHC Women of Color in Tech Scholarship, 2019 CodePath Interview Prep Selectee, 2018 Trivago Tech Camp 2.0, 2018 MongoDB World Diversity Scholarship, 2018 Grow with Google Scholarship (Android Development), 2017 Forbes Under 30 Scholar, 2017 Google's Women TechMakers, NYU 2016 GHC Scholarship

SKILLS

Computer Languages: Java, SQL, Python, HTML/CSS

Tools: Git, Bitbucket, SQL Server, Docker, Jenkins, Jira, Atom, IntelliJ

Languages: Bengali, English **Hobby:** Photography (@[arcturusInk](#))

EXPERIENCE

Data Engineer – Teach for America, New York, NY

Present

- Created data pipelines
- Coded stored procedures

Member – NYU Tandon Alumnae Advisory Council, New York, NY

Present

AP Calculus Instructor – Double Discovery Center, Columbia University, NY

Jan 2019 – May 2019

- Taught twenty-two students Calculus concepts for the AP Calculus Exam

Lead Instructor – Girls Who Code, Jersey City, NJ

Summer 2018

- Lead a group of 20 high school girls and 1 Teaching Assistant on a 7-week curriculum at JPMorgan Chase site
- Taught computer science fundamentals such as: basic data structures, function, loops, conditionals and variables in the context of Data Science, Web Dev, Robotics, Python and Scratch
- Provided feedback on debugging individual/group coding projects, demos, execution of technical implementation, scope of projects, design decisions, ideation and presentation skills/format
- Maintained correspondence with Girls Who Code and JPMorgan Chase to coordinate classroom logistics, facilitate speaker series, and chaperone field trips

Robotic Process Automation (RPA) Intern – Travelers Insurance, Hartford, CT

Summer 2017

- Delivered an RPA process that automated interactions between applications such as random.org, Single Sign On, Automation Anywhere (AA) and Traveler's internal password resetting sites to set/reset passwords in VMs
- Created 5 TaskBots and 3 MetaBots using AA according to specifications provided by the Tech Lead Consultant
- Applied concepts such as regex, error handling/exceptions, unit testing and modularizing to RPA
- Used Java to parse files and coded an algorithm that compared matching strings between two files
- Created the frontend of a messaging platform using Bootstrap Framework for a group project with three interns

Undergraduate Summer Researcher – New York University, Brooklyn, NY

Summer 2016

- Plotted and programmed Tandon's history in 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

PROJECTS

- [TweetVisualization](#) (Python, TextBlob, Matplotlib): Used tweets from Twitter to perform sentiment analysis regarding the subject of "automation," then visualized the data using matplotlib
- [Text Analysis](#) (Java): Read a text file, extracted information, such as: word(s) that appeared the most and least, longest word(s), average word length, total number of words and characters, and frequency in which a word appeared in the text
- [I-O-CSV-File](#) (Java, Openscv): Loaded data from a CSV file, cleaned the data according to specification, and outputted the validated data to HTML and EXCEL files