

# Elizabeth Williams

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## Education

### Stony Brook University

Stony Brook, NY

B.S. IN COMPUTER SCIENCE AND APPLIED MATH, GPA: 3.95

August 2014 - May 2018

- **Honors:** Honors College, Honors Computer Science, Phi Beta Kappa, Trustee Scholar, Dean's List
- **Activities:** CEAS Peer Mentor (2016-2017), Women in Computer Science, Philippine United Student Organization
- **Coursework:** Databases, Visualization, Data Analysis, System Fundamentals, Computer Networks, Social Network Analysis, Algorithms, Theory of Computation, Computational Geometry

## Skills

**Programming** Python, Java, C#, C, JavaScript, SQL, R, HTML/CSS

**Frameworks** Flask, Spring/Spring Boot, ASP.NET MVC, AngularJS

**Libraries** D3, Scikit-Learn, Bootstrap

## Experience

### Citi

Jersey City, NJ

SUMMER TECHNOLOGY ANALYST

June 2017 - Present

- Implemented bond pricing event simulator as a RESTful service using Spring Boot, a Spring-based framework, and EMS messaging.
- Improved development and testing workflows by implementing simulator features, including methods to maintain a DEV environment, a simple query language to search and edit cached bond pricing records, and methods to automate test cases.
- Support adoption of simulator across Global Credit eTrading team by hosting conference calls to introduce application and train users and writing documentation.
- Develop a web service to monitor the state of a core component in the eTrading platform.

### Stony Brook University - Application Support for Administration

Stony Brook, NY

STUDENT SOFTWARE DEVELOPER

Oct. 2016 - Present

- Implement bug fixes and new features in web applications used by the university's administration departments using ASP.NET MVC and AngularJS.
- Develop a console and web application to track, monitor, and display instances of scheduled batch programs running on multiple servers, using ASP.NET MVC, AngularJS, and D3.

### Stony Brook University - Computer Science Department

Stony Brook, NY

TEACHING ASSISTANT - COMPUTER SCIENCE III

Jan. 2016 - Dec. 2016

- Held weekly office hours to assist students by providing guidance on homework assignments, debugging assistance, and further explanation of concepts, including Object-oriented programming, Java event handling, unit testing, and design patterns.

### Girls Who Code

New York, NY

TEACHING ASSISTANT

Jun. 2016 - Aug. 2016

- Assisted in the instruction of the Girls Who Code curriculum to a classroom of 20 11th and 12th grade girls of varying technical backgrounds through lecturing, creating supplemental notes and worksheets, helping students with labs, and providing feedback on assignments.
- Curriculum included Python, Object-Oriented Programming, Robotics, and Web Development, culminating in final projects designed and developed entirely by students.

### Mapzen

New York, NY

SOFTWARE DEVELOPER INTERN

Jul. 2015 - Aug. 2015

- Researched and used JavaScript libraries to visualize API usage statistics of products.
- Created a Leaflet map for viewing place names, such as neighborhoods, cities, and regions from a GeoJSON dataset, allowing for the discovery of missing data.

## Projects

- |      |                                                                                                        |                  |
|------|--------------------------------------------------------------------------------------------------------|------------------|
| 2017 | <b>PageRank</b> , PageRank algorithm and random walks on a web graph.                                  | Python           |
| 2017 | <b>Dynamic Memory Allocator</b> , Implemented using best fit strategy and an explicit free list.       | C                |
| 2016 | <b>Pkmn Data Viz</b> , Interactive histogram, multivariate data displays, brushing and linking.        | D3, Scikit-learn |
| 2016 | <b>Bamboozled</b> , Social network with advertising and sales features and user management menus.      | Flask, MySQL     |
| 2016 | <b>Pup Scouter</b> , Find dog images and generate captions using Clarifai image recognition API.       | Flask            |
| 2016 | <b>Paz2</b> , Roguelike RPG made at HackRU. Features map movement, collisions, and turn based battles. | Python, Pyglet   |
| 2015 | <b>Cryptcoin Miner Node</b> , Implemented mining logic and data structures to represent blockchain.    | Java             |