

# Elizabeth Williams

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## EDUCATION

**Stony Brook University** - *Stony Brook, NY*

Expected: May 2018

B.S. Computer Science, Applied Mathematics & Statistics

GPA: 3.94

- Honors College, Honors Computer Science, CEAS Peer Mentor, Dean's List

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## EXPERIENCE

**Student Software Developer** - *Application Support for Admin; Stony Brook, NY*

10/2016 - Present

- Use ASP.NET, AngularJS, Bootstrap and SQL Server to implement bug fixes and features on web applications used by the University's administration departments.
- Currently developing a web application to visualize the running times of scheduled batch processes to assist in information retrieval and detection of errors and anomalies.

**Undergraduate Teaching Assistant** - *Stony Brook University; Stony Brook, NY*

1/2016 - 12/2016

- Assisted students in debugging code in Java, designing and developing software from specifications, and understanding Object-Oriented Programming concepts by holding 4 office hours weekly, responding to emails, and answering questions on the class discussion forum.

**Teaching Assistant** - *Girls Who Code; New York, NY*

6/2016 - 8/2016

- Assisted in the instruction of the Girls Who Code curriculum to a classroom of 20 11th and 12th grade girls through lecturing, creating supplemental content, and providing individual attention.
- Curriculum included Python, Object-Oriented Programming, Robotics, and Web Development, culminating in final projects designed and created entirely by students.

**Software Developer Intern** - *Mapzen; New York, NY*

7/2015 - 8/2015

- Extended and streamlined webpages for visualizing API usage statistics from a JSON file by researching and implementing JavaScript visualization libraries.
- Created a map using Leaflet and Mapzen's Tangram Tile Service for viewing place names from a GeoJSON dataset to facilitate the discovery of missing data.

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## PROJECTS

**Pokémon Data Visualizations** - *Intro to Visualization Project*

10/2016 - 12/2016

- Used D3.js and the Pokémon dataset to create an interactive histogram, scatterplot, scatterplot matrix, correlation matrix, parallel coordinates, PCA plot, biplot, and MDS plot. Implemented brushing and linking between 4 displays.
- Used Pandas and scikit-learn to preprocess data, reduce data by sampling via k-means clustering, perform PCA decomposition, perform Multidimensional Scaling, and obtain correlation matrices.

**Bamboozled Social Network** - [github.com/ewilliams96/305\\_WebApp](https://github.com/ewilliams96/305_WebApp)

10/2016 - 12/2016

- Worked in a team to design and develop a database to support the operations of a social network with a shopping component. Functionality includes registering, groups, pages, friends, posts, comments, targeted advertising, and sales.
- Developed a web application using Flask, MySQL and Bootstrap with interfaces for general users, employees, and managers of the service.

**Pup Scouter** - [github.com/ewilliams96/Hack\\_Health\\_Pupper\\_App](https://github.com/ewilliams96/Hack_Health_Pupper_App)

9/2016

- Flask web application that uses the Reddit API and Clarifai API to retrieve and displays dog pictures with generated messages and up vote functionality.
- Won 'Most Original Hack' at HackHealth and featured on Clarifai's social media outlets.

**CryptCoin** - *Computer Science B Course Project*

10/2015 - 11/2015

- Multithreaded Java application implementing a simplified cryptocurrency protocol to validate incoming blocks and transactions against a block chain while listening for more incoming data. Documented design through UML diagrams.

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## TECHNICAL SKILLS

**Languages:** Java, Python, C, C#, JavaScript, SQL, HTML/CSS, MIPS Assembly, LaTeX

**Frameworks/Libraries:** Flask, scikit-learn, D3.js, JQuery, AngularJS, Bootstrap, ASP.NET MVC, Android