

## EDUCATION

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- **Lafayette College** Easton, PA  
*Bachelors of Science in Computer Science; GPA: 3.3* Aug. 2015 – May. 2018
- **New Providence High School** New Providence, New Jersey

## EXPERIENCE

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- **Bank of America** New York, NY  
*Global Technology Summer Analyst* Jun. 2017 - Aug 2017
  - **SPARQL Query Parsing:** Used Java libraries to interpret an AST tree for a SPARQL query on an RDF database.
  - **Query Data Visualization:** Utilized JS library VisJS and AkkaHTTP to develop an internally user data visualization page aimed to reduce the complexity and expense of queries on a database
- **Part-Time CS Tutor** Easton, PA  
*Student Instructor* Jan. 2016 - Dec. 2017
  - **Introductory Course Tutor:** Specialized Computer Science assistance to those struggling with fundamental concepts in early CS education and introductory courses

## PROJECTS

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- **Basic Classification/ML Algorithms:** Implemented classifiers through basic ML algorithms (such as KNN, linear regression, logistic regression, etc) for open data-sets such as the MNIST database [Numpy, ML, Python]
- **Twitter Sentiment Data Visualization:** Built front-end and back-end of a twitter sentiment visualization website. [Flask, Python, NLTK, D3]
- **PA Education Data Visualization:** Built insightful visualizations for the United Way Foundation of PA in order to highlight trends found within a given database [Class Project, RoR, D3, Bootstrap, Git]
- **Simulated CPU:** Implemented functionality of CPU based on Y-86 ISA [Class Project, Java]
- **Data Structure Board Game:** Used a variety of data structures to create a board game playable through the command line [ClassProject, ArrayList, Stack, (Priority) Queue, Graphs, Trees, Unit Testing]
- **Distance Vector and Reliable Transfer Protocols:** Implement the distance vector algorithm used for routing between routers. Implement reliable data transfer protocols on a simulated network [Class Project, Networking, Java]
- **Reddit to Spotify:** Use API's of Reddit and Spotify to make auto-populated Spotify playlists. [Data Parsing, Python]

## PROGRAMMING SKILLS

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- **Languages:** Python, Java, Javascript, C++, SQL
- Technologies:** Git, Flask, D3, JQuery, QT, Akka