# Michael Cappeller

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**EDUCATION**

**Stony Brook University, Stony Brook, NY** Fall 2017-Spring 2019

*Bachelor of Science in Computer Science*

**Hofstra University, Hempstead, NY** Expected August 2021

*Bachelor of Science in Computer Science*GPA: 3.9

Dean’s List (Fall 2020)

**TECHNICAL SKILLS**

**Languages:** Java, JavaScript, C#, Python, VB.NET, HTML, CSS, SQL, MQL

**Platforms:** Heroku, MongoDB Atlas, Firebase

**Frameworks/Libraries/Environments:** Node.js, Express, React, Redux, Mongoose, jQuery

**RELEVANT COURSEWORK**

**Software Engineering**

* Learned industry level practices about the nature of program development.
* Topics discussed include: Capability Maturity Model, Requirements Management, Project Management, Quality Assurance, Software Development Lifecycles, AGILE/SCRUM Methodologies.

**Operating Systems**

* Discuss topics such as process and thread management, memory management, system security, and virtualization.
* Work in a Linux environment which allows us to look inside the operating system’s source code and modify it to meet our needs.

**Advanced Data Structures and Object-Oriented Programming**

* Discussed how data structures can be used to tackle problems in a way that is both efficient and speedy.
* Data structures discussed include: Arrays, Linked Lists, Stacks, Queues, Heaps, Hash Maps, Hash Sets, Binary Search Trees, Red-Black Trees, Tree Sets.
* Measured complexity of algorithms using Big-O notation.

**PROJECTS**

**Textbook Exchange App (2020):** An Android app that allows Hofstra University students to sign up with their Hofstra User ID and upload their used textbooks for other students to purchase. With the help of the Amazon API, the app could take a book’s ISBN number and retrieve information such as the book’s title, author, description, number of pages, publisher, and a picture of the cover. My team and I were responsible for building the databases, creating the login/sign-up system, designing the GUI, and making sure everything integrated seamlessly.

**Reddit Wallpaper App (2020):** Designed a simple application that uses the PRAW API to download images from a subreddit of your choice to use as wallpapers for your desktop. The program is designed to download only images that will fit your screen’s resolution. The program will automatically remove old wallpapers after a set number of days to make room for new wallpapers.

**WORK EXPERIENCE**

**Brimma Tech, Inc** December 2020-Present

*Software Developer Contractor*

* Collaborate with client teams and Brimma teams to facilitate design, development and implementation of advanced innovative mortgage systems and other high-tech solutions that Brimma delivers for clients.
  + Work with Brimma delivery leadership to:
    - define scope of software development work/projects
    - collaboratively design and architect software solutions
    - code and test software that adheres to designs and meets customer requirements