

# Atharva Kadam

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## EDUCATION

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### Stony Brook University

*Bachelor of Science in Computer Science, GPA: 3.72*  
*Master of Computer Science*

Relevant Courses: Data Structures, Algorithms, Software Development, Natural Language Processing, Programming Paradigms, System Fundamentals I & II, Graph Theory and Combinatorial Analysis

Stony Brook, NY

*Expected May 2021*

*Expected May 2022*

## EXPERIENCE

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### Machine Learning Research Assistant

*Ethos Lab*

- Examined the performance of various convolutional neural networks on mobile devices.
- Learnt and built models with different architectures and custom data loaders for preprocessing datasets.
- Achieved baseline accuracy of 85% and improved it to 95% by applying preprocessing techniques.

January 2020 - May 2020

*Stony Brook, NY*

### Undergraduate Teaching Assistant

*Stony Brook University Department of Computer Science*

- Managed over 300 students by holding lab sessions and assisting the professor with teaching introductory Java concepts to students.
- Supervised lab sessions twice a week, helped with grading exams and organized review sessions.

January 2020 - May 2020

*Stony Brook, NY*

### Web Security Research Assistant

*Ethos Lab*

- Created a web crawler that crawled through Amazon Alexa's top one million websites to return data about OAuth implementation, password policies and security questions.
- Used web scraping tools such as Scrapy and web automation tools such as Selenium to scrape data about OAuth implementation.

August 2019 - December 2019

*Stony Brook, NY*

### Data Science Research Assistant

*Stony Brook University Department of Computer Science*

- Performed time series analysis on stock data by studying the change in stock prices with trends and used the ARIMA model to forecast future trends.
- Leveraged several Scikit-Learn modules to perform the time series analysis.

August 2019 - December 2019

*Stony Brook, NY*

## PROJECTS

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### Cosmos - HTML, CSS, JavaScript, React, Redux, MongoDB, Express

- Created a minimalistic full stack project which works as an online shopping service.
- Built the backend using Node.js, Express and a RESTful API.
- Implemented the database using a MongoDB cluster.

August 2020 - Present

### Delivery Boy - JavaScript, React-Native, Firebase

- Created an end to end iOS food delivery app for local restaurants using React-Native.
- Implemented user authentication and the database using Firebase.
- Built the UI and the frontend using React-Native.

June 2020 - Present

### Mood Lyric Generator - Python, Scikit-Learn, Numpy, Pandas

- Calculated probabilities to make predictions for the final word in a sequence by constructing bigram and trigram matrices.
- Built and trained a logistic regression based language model on over 57000 songs.
- Successfully generates lyrics based on the genre through the use of an adjective classifier.

January 2020 - May 2020

### WireFramer - HTML, CSS, JavaScript, React.js, Redux, Firebase

- Built a full stack web application using React for the frontend and Firebase for the backend.
- Created a wire framing tool that lets you use drag and drop elements to create unique designs.

August 2019 - December 2019

## SKILLS

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**Languages:** Python, Java, C, MIPS Assembly

**Web Development:** HTML, CSS, JavaScript

**Data:** Numpy, Pandas, Scikit-Learn, TensorFlow

**Tools and Technologies:** Git, Google Cloud Platform

**Frameworks:** React.js, Node.js, Express.js, React-Native, Selenium, Scrapy

**Software:** Jupyter Notebook, Linux, Xcode