

# Chellsea Carmel

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## EDUCATION

<b>Stony Brook University (SBU)</b> , Stony Brook, NY	Expected Graduation Dec. 2023
<i>Master of Science in Computer Science</i>	<b>GPA: 3.60</b>
<b>Stony Brook University (SBU)</b> , Stony Brook, NY	August 2018-May 2022
<i>Bachelors of Science in Computer Science, Applied Mathematics and Statistics</i>	GPA: 3.52 (Cum Laude)

**Relevant Coursework:** Analysis of Algorithms, Data Structures and Algorithms, Machine Learning, Artificial Intelligence, Human Computer Interaction, Visualization, Programming Abstractions, System Fundamentals, Discrete Mathematics, Object-Oriented Programming, Computer Networks.

**Awards:** Dean's List Fall 2018, Spring 2019, Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022

## SKILLS

- Java, Python, C, SQL, XQuery, MIPS Assembly, OCaml, HTML, CSS, and TypeScript Programming Languages.
- Also knowledgeable in React.js, Node.js, D3.js, Java MVC, RESTful API's, Pandas, Numpy, Scikit-Learn libraries.
- Familiar using GitHub, Figma, Postman, DB2, MySQL, Hadoop, Spark, GCP, Orange, Tableau.
- Fluent in English, Hindi, Marathi, and Tamil.

## WORK EXPERIENCE

### Graduate Research Assistant, Stony Brook University

- **Python Interface for Image Segmentation** May. 2023 – Current  
Working on a Python based computer vision interface for generating and modifying masks of objects using Meta's Segment Anything AI Model for image segmentation and CV2 library.
- **Gaze Tracking Application** Aug. 2022 – May 2023  
Built an iOS application for iPad to create a gaze-based controller with support in portrait and landscape orientation as well as a user study application to measure the gaze quality using Swift, Xcode and AR kit libraries. Also implemented quality improving measures such as triangular kernel filtering, saccade detection as well as target selection using Bayesian Gaze.

### Junior Data Scientist Intern, Akai Kaeru

June 2022 – Aug. 2022

- Analyzed data from several sources such as Kaggle to gain insights from them by using tools such as AK analyst and Python as well as suggested several bug fixes to AK's analyst software.
- Performed in depth analysis and prediction using Hate Speech Data and gained hands-on experience in Machine Learning.

## ACADEMIC PROJECTS

### Airbnb Price Prediction with Sentiment Analysis, CSE 512

- Used Airbnb data to perform sentiment analysis using NLP algorithms such as pretrained BERT and word to vector as well as used Machine Learning models such as Logistic Regression, SVMs and Random Forest to accurately predict prices in various modalities as well as study the impact of sentiment on pricing.

### QuizHub, CSE 416

- Created and implemented the entire project lifecycle for a web-based app that provides user-generated platforms for creating and taking quizzes as well as earn rewards in the form of badges and certificates using MERN stack as well as tools such as Figma for UI design and Postman for backend testing.

### Multithreaded Chat Server in C, CSE 320

- Created a C based multithreaded server to enable communication between the connected clients on the network as well as provide functionality such as read recipients and error messages in case of logged out users.

## LEADERSHIP

### Treasurer, NSLS at SBU

Aug. 2021 – May 2022

- Assisted the organization with budgeting, fundraising and allocating necessary funds for upcoming events.
- Hosted LTD and SNT events for students to help achieve their leadership goals for induction.

### Applied Calculus IV: Differential Equations Teaching Assistant, SBU

Jan. 2022 – May 2022

- Held two weekly office hours to assist a student body of 80 students in their homework and exams.
- Proctored exams being administered to 80 students as well as graded multiple exams and homework entirely.

### Applied Calculus III: Multivariable Calculus Teaching Assistant, SBU

Aug. 2020 – Dec. 2020

- Held two weekly office hours to assist a student body of 264 students in their homework and exams.
- Proctored exams being administered to 264 students as well as graded multiple exams entirely.

## CERTIFICATES

- **Google's Foundations of Project Management, June 2021**
- **JP Morgan and Chase Software Engineering Virtual Experience, November 2020**