

# Makendy Midouin

🏠 [Sparta, NJ](#)

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## Education

### New York University

Jan 2023 – December 2024

MS in Computer Science

*Program focus:* Advanced computer science concepts and techniques, including data structures and algorithms

*Coursework includes:* Principles of Database Systems, Design & Analysis of Algorithms, Software Engineering, Big Data, and more

### St. Thomas Aquinas College

Sep 2018 – May 2022

BS in Computer Science

*HONORS & AWARDS:* Academic Scholarship, Athletic Scholarship, Distinguished Dean’s List, Chi Alpha Sigma –Nu Chapter, Sigma Zeta

*EXTRACURRICULAR ACTIVITIES:* Altar Server, Venture, College Soccer, College Track & Field.

## Relevant Experience

### Roadcall.co

June 2023 - September 2023

*Software Engineer Intern*

*TECH STACK:* React, Redux, Typescript, Material UI, Axios

- Developed an admin to driver note feature using **Redux** and **JavaScript** within the **React** framework
- Created tests for the web app UI and flows, resulting in fewer bugs
- Helped investigate and resolve issues with the phone masking component using **Typescript**
- Collaborated with other team members to provide support and bug fixes for various internal tools written in **JavaScript**
- Worked in an Agile **Scrum** team and worked with **Trello** for sprint planning
- Utilized **BitBucket** to store, manage and control changes in our code

### Treehouse Strategy

May 2021 – September 2021

*Full Stack Intern*

*TECH STACK:* React.js, .NET, MongoDB

- Created reusable **React.js** components, resulting in fewer bugs and improved code quality
- Added a dynamic dashboard page for agency partnerships using **React** to enhance client engagement
- Implemented links on dashboard using **React** and **MongoDB**, to help functionality and optimize data entry in tables
- Provided support and bug fixes for various internal tools written in **C#**
- Worked in an Agile **Scrum** team and used **Asana** for sprint planning

### Varsity Tutors

September 2020 – May 2022

*Computer Science Tutor*

- Tutored over a 100 students at all levels, starting with middle school to graduate students
- Delivered a series of technical Computer Science topics, such as **Data Structures, Algorithms and OOP** using **Java**
- Increased students programming proficiency by a 95% pass rate on final exams
- Collaborated with students in a well-organized, friendly, and progressive environment

### St. Thomas Aquinas College

September 2019 - May 2022

*Researcher*

*TECH STACK:* C#, Unity, Oculus VR Headsets, Mo Cap Suit

- Implemented three dialogue systems using the **Oculus VR** headsets, **Unity tools** and **C#** to trigger the dialogue at close proximity
- Worked in an Agile **Scrum** team and took part of the stand up meetings for sprint planning
- Created several new animations using the **Mo Cap Suit** to improve the quality of the application
- Presented this research in front of hundreds of educators at the ISTE Live 2022 conference in New Orleans

## Projects

### NYU Interview Prep / [Link](#)

Jan 2023 - May 2023

*TECH STACK:* Django, React, Postgres, AWS

- Created a full-stack web application for NYU alumni and faculty to connect students pursuing similar careers
- Worked in an Agile **Scrum** team and made use of **Zenhub** for sprint planning
- Implemented CI/CD pipeline using **Travis.CI** to improve automated build process for the application
- Developed a coding editor using **Django** and **React** to help users run and compile their code
- Worked with **AWS S3** bucket to store videos and pictures that users will be uploading to their profile

### Combating Discrimination/ [Link](#)

Sep 2019 - May 2022

*TECH STACK:* Unity, C#, Oculus VR headsets

- Worked on a study using **Virtual Reality** to investigate and treat discrimination in the daily life of college students
- Managed a team of 5 students, planning meetings and coordinating tasks over the course of 8 months

### FatEar/ [Link](#)

Jan 2023 - May 2023

*TECH STACK:* Flask, React, MySQL

- Built a full-stack web application using **React** and **Flask** to provide users many capabilities
- Implemented features to allow a user to create a playlist, add new friends and follow their favorite artist
- Designed and implemented database schema using **MySQL** to quickly present and save user information

## Technical Skills

### Languages

- Java, JavaScript, Python, C#, HTML/CSS, SQL (Postgres)

### Frameworks

- React, Flask, Django, Node.js, Bootstrap

### Developer Tools

- Git, Zenhub, Bitbucket, AWS (Elastic Beanstalk, EC2, Amazon S3)