

# Makendy Midouin

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## Education

### New York University

Jan 2023 – December 2024

MS in Computer Science

**PROGRAM FOCUS:** Advanced computer science concepts, focusing on data structures, algorithms, and web technologies

**COURSEWORK:** 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 & 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

- 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

- Supported internal tools development using **C#**, with a focus on **database** and **server-side scripting**
- 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
- Worked in an Agile **Scrum** team and used **Asana** for sprint planning

### Varsity Tutors

September 2020 – May 2022

Computer Science Tutor

- Tutored students in **JavaScript**, **SQL**, and other programming languages, achieving a 95% pass rate on final exams.
- Delivered a series of technical Computer Science topics, such as **Data Structures**, **Algorithms** and **OOP** using **Java**
- Collaborated with students in a well-organized, friendly, and progressive environment

## Projects

### Stack Overflow / [Link](#)

September 2023 – December 2023

- Develop a web application that incorporates a **Spark-based framework** for handling datasets.
- Perform **data analysis** and generate **visualizations** for Stack Overflow post data.
- Processed and transformed 100GB of XML data, representing a comprehensive ~8TB Stack Overflow dataset.
- Implemented a multi-tier system using **MongoDB Atlas** and **AWS DynamoDB** for data modeling and quick access retrieval.
- Developed a web dashboard using **Next.js** and **React**, enhanced with **Echarts** for interactive data insights.
- Streamlined **MongoDB queries** and processing, achieving high performance under resource constraints.

### Cleaning Service / [Link](#)

June 2023 – September 2023

- Designed a 2-tier web application allowing users to seamlessly schedule cleaning service appointments.
- Developed a booking system using **Node.js**, **GraphQL**, **jQuery** and **React**, offering users instant email confirmations after booking.
- Integrated **AWS S3** for efficient storage and streaming of promotional videos showcased on the landing page.
- Deployed the application via **Netlify**, ensuring optimal performance and accessibility.
- Leveraged **Mongoose** for secure and scalable cloud-based storage of user data.

### Fat Ear / [Link](#)

January 2023 - May 2023

- Built a web application using **React** and **Flask**, with **JavaScript** for front-end development and **SQL** for database management.
- Implemented **CRUD** 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

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

January 2023 - May 2023

- 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 **Python**, **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

## Technical Skills

### Languages

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

### Frameworks

- React, Flask, Django, Node.js, Bootstrap, Hadoop, Spark, Next.js, MongoDB Atlas

### Developer Tools

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