

Makendy Midouin

🏠Sparta, NJ

✉️midouinmakendy@gmail.com

☎️(845) 405-9395

🌐LinkedIn

🌐GitHub

🌐Portfolio

EDUCATION

New York University

Expected December 2024

Master of Science in Computer Science

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

COURSEWORK: Principles of Database Systems, Big Data, SWE, DAA, ISP, HCI, AI, [CodePath](#) Advanced Technical Interview Prep

St. Thomas Aquinas College

September 2018 – May 2022

Bachelor of Science 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

Software Engineer Intern

June 2023 – September 2023

Roadcall.co

- Co-designed and implemented an admin note feature using **React**, **Redux**, and hooks for state and lifecycle management
- Addressed 90% of user concerns by actively testing and creating action items based on survey feedback
- Pushed and reviewed code using **Bitbucket**, ensuring compliance with company standards and best practices
- Achieved 99.9% accuracy in data processing by resolving 8 critical formatting bugs using **TypeScript**
- Collaborated cross-functionally within an Agile team, ensuring successful sprint execution

Software Engineer Intern

May 2021 – September 2021

Treehouse Strategy

- Developed a dynamic dashboard page for agency partnerships using **React**, resulting in a 20% increase in client engagement
- Improved code quality and reduced bugs by successful implementation of reusable components, using React
- Streamlined **API** data integration into data tables using React, resulting in a 10% improvement in data access
- Implemented internal tools in **C#**, resulting in enhanced database management and server-side scripting capabilities

Computer Science Tutor

September 2020 – May 2022

Varsity Tutors, St. Thomas Aquinas College

- Tutored 80+ students in Computer Science, achieving 90% pass rate, teaching **Java**, **Data Structures**, **Algorithms**, and **OOP**
- Received a 96% satisfaction rate from students and parents, with feedback highlighting effective communication and patience

XLAB Researcher

September 2019 – May 2022

St. Thomas Aquinas College

- Conducted a **VR** study on biases related to race, gender, and weight, and presented findings at the ISTE Convention in New Orleans
- Developed proximity-based dialogue system in **Unity** using **C#**, and enhanced the application with **Mo Cap Suit** animations
- Led a team of 5, coordinating tasks and meetings in an Agile Scrum environment with sprint planning and stand-ups

PROJECTS

Stack Overflow Post Big Data - Full Stack Developer

[GitHub](#) | [View Project](#)

- Collaborated with a team of 4 to develop a web dashboard, utilizing **Next.js** and **Echarts** to visualize Stack Overflow post data
- Managed and processed 100GB of XML data (8TB equivalent), developing efficient data pipelines and algorithms
- Implemented a 2-tier cloud database, leveraging **MongoDB Atlas** and **AWS DynamoDB** for efficient data storage and access
- Accelerated database searches from 45-90 seconds to 1-3 seconds, leveraging MongoDB indexing to overcome hardware limitations

Cleaning Service – FreeLancer

[GitHub](#) | [View Project](#)

- Developed robust booking system with **React**, **GraphQL**, and **Node**, featuring scheduling, confirmations, and payment processing.
- Effectively communicated with client to deliver tailored app, meeting their needs and expectations
- Optimized video storage and streaming using **AWS S3 Bucket**, improving page load times and user engagement

NYU Interview Prep – Full Stack Developer

[GitHub](#) | [View Project](#)

- Led a team of 5 as a Product Owner to build a NYU career web app to connect students pursuing similar careers
- Designed and developed a coding editor using **Python**, **Django**, and **React**, enabling users to run and compile code seamlessly
- Integrated **AWS S3 bucket** for storing and managing user-uploaded videos and pictures, ensuring secure media storage

FatEar - Full Stack Developer

[GitHub](#) | [View Project](#)

- Developed a **React** and **Flask** app, implementing CRUD features for creating playlists, adding friends, and following artists
- Designed and implemented a **MySQL** schema to manage user profiles, friendships, notifications, and music data
- Wrote **SQL** queries for tasks like retrieving user profiles, listing friends, processing friendship requests, and inserting song ratings

SKILLS

Languages : Java, JavaScript, Python, C#, C++, HTML/CSS, SQL databases (Postgres, MySQL)

Frameworks : React, Next.js, Flask, Django, Node.js, Express, Bootstrap, Hadoop, Spark, MongoDB Atlas, OpenAI, REST, Unit Testing

Developer Tools: GitHub, Zenhub, Trello, Bitbucket, CI/CD Pipelines, Unity, Virtual Reality, Figma, AWS

ADDITIONAL EXPERIENCE

St. Thomas Aquinas College – Software Engineer Adjunct Faculty | Sparkill, NY

August 2024 – Present

Brains & Motion Education – Lead Coding Instructor | New York, NY

June 2024 – August 2024