

Mazen Ibrahim

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EDUCATION

Stony Brook University

B.S. in Computer Science

Stony Brook, New York

Expected Graduation, May 2025

- o **Related Coursework:** Introduction to Object-Oriented Programming | Data Structures & Algorithms | Foundations of Computer Science | Programming Abstractions | Systems Fundamentals I | Fundamentals of Software Development | Analysis of Algorithms | 2D Game Programming | System of Fundamentals II | Intro to Theory of Computation | Survey of Probability and Statistics | Introduction to Data Science | Computer Networks | Scripting Languages

PROJECTS

Pantry Nest | *Nextjs, Material UI, Firebase, Firestore, OpenAI, Google Cloud Vision API*

- Designed and developed a **pantry management application** that allows users to keep track of pantry items by **adding** or **removing** items and **updating** their quantities in the **Firestore database**. The project also has an **AI Recipe Generator** using **OpenAI API** and an **AI image classifier** using **Google Cloud Vision API**.
- This project elevated my proficiency in **Full Stack development** and aided in better understanding and implementation of the **Software Development Life-Cycle**.

AI Flashcard SaaS | *Nextjs, Material UI, Firebase, Firestore, OpenAI, Stripe, Clerk*

- Developed an **AI-driven SaaS application** for dynamic **flashcard creation** and study optimization, utilizing Next.js and Material UI for a responsive **user interface** and Firestore for **real-time data management**.
- Integrated **OpenAI** for **automated flashcard generation** and **Stripe** for **secure subscription-based billing**, and **Clerk** for **user authentication**.

Titanic Survival Prediction Models | *Python, Jupyter Notebook*

- **Processed** a training dataset provided by Kaggle where I **cleaned** the **dataset** by **removing/imputing** null variables and **removing outliers** using the **IQR method**.
- **Built three Machine Learning models** that uses the most important features for training deduced by **analyzing relationships** through **visualizations** and **correlation analysis** to **predict** who **survives** the Titanic on unseen data.

EXPERIENCE

Stony Brook University: Academic and Transfer Advising Services

Articulator - Data Entry

Stony Brook, New York

Sep 2021 – current

- **Managed** course equivalencies, student academic records, and transfer articulation **spreadsheets** using **PeopleSoft** and **Google Drive**.

Headstarter AI

Software Engineering Fellow

New York, NY

July 2024 - current

- **Built 5+ AI apps** and **APIs** using **Nextjs, OpenAI, Pinecone, StripeAPI** with **98%** accuracy as seen by **1000 users** with **mentorship** from **Amazon, Bloomberg, and Capital One** engineers on **Agile, CI/CD, Git**, and more.
- Developed projects from **design to deployment** leading **3 engineering fellows** using **MVC** design patterns.

Wendy's

Team Trainer

Port Jefferson Station, New York

May 2019 – Jan 2024

- **Communicated** with the Wendy's team and **led** them to provide the best **customer service** while maintaining a low average wait time per customer and helped train and supervise new employees.

ACTIVITIES AND LEADERSHIP

Volleyball Club at Stony Brook University

Treasurer

Stony Brook, New York

Sep 2023 – May 2024

- Handled invoice requests and allocations for the Volleyball Club in order to optimize the budget and also maintained a budget spreadsheet for organization. Increased the club's budget by 20%.

SKILLS

Technical Skills: JavaScript, HTML/CSS, Node.js, Next.js, React.js, Express.js, Python, Machine Learning, Java, SQL, C

Tools: Git & Github, Visual Studio Code, Postman, MongoDB, Firebase, Jupyter Notebooks, RESTful APIs, Vercel

Other Skills: Communication, Leadership, Organization, Adaptability, , Teamwork, Customer Service, Fluent in Arabic