Mazen Ibrahim

US Citizen | mazenkhalid554@gmail.com | (631)-913-5350 | LinkedIn: [Mazen Ibrahim](#) | GitHub: [MazenIbrahim1](#)

EDUCATION

Stony Brook University   **Stony Brook, New York**
B.S. in Computer Science   *Expected Graduation, May 2025*
- o **Related Coursework:** Data Structures & Algorithms | Programming Abstractions | Systems Fundamentals I | Fundamentals of Software Development | Analysis of Algorithms | System of Fundamentals II| Introduction to Data Science | Computer Networks | Scripting Languages |Intro to Theory of Computing | Cloud Computing | Computer Security Fundamentals | Software Engineering

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 AP**I.
- 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**.

Dolphin Data Sharing Platform | *React & Vite, GO, MongoDB, IPFS, DHT, BTCD, BTCWallet, BTCCTL*
- **Designed** and **developed** a **decentralized file-sharing application** enabling users to **upload**, **download**, and **search files** using c**ryptographic hashes stored on a distributed network**. Integrated features such as an **HTTP Proxy service** for file access with customizable pricing and a **secure wallet system** for **transactions**.
- **Implemented** a **dark mode UI** for improved accessibility and ensured robust **user account security** with **password validation** and **encrypted wallet storage**.

EXPERIENCE

Stony Brook University: Academic and Transfer Advising Services   **Stony Brook, New York**
Articulator - Data Entry   *Sep 2021 – current*
- **Managed** course equivalencies, student records, and transfer articulation **spreadsheets** using **PeopleSoft**.

Headstarter AI   **New York, NY**
Software Engineering Fellow   *July 2024 - Sep 2024*
- **Built 5+ AI apps** and **APIs** using **Nextjs**, **OpenAI**, **Pinecone**, **StripeAPI** with **98%** accuracy as seen by **1000 users** with **mentorship** from **Amazon**, **Google**, and **Capital One** engineers on **Agile**, **CI/CD**, **Git**, and more.
- Led a team of 3 to develop an **interactive customer support agent** using **Next.js**, integrated a **custom RAG pipeline** using **OpenAI** and **Pinecone** that responds based on a company's knowledge base.

Wendy's   **Port Jefferson Station, New York**
Team Trainer   *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   **Stony Brook, New York**
Treasurer   *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