

Joshua Mathew

joshuamathew195@gmail.com | (469) 910-7117 | [linkedin.com/in/joshua-gm/](https://www.linkedin.com/in/joshua-gm/) | github.com/JoshuaM195

EDUCATION

The University of Texas at Dallas, Richardson, TX

B.S. in Information Technology and Systems, Minor in Computer Science

May 2025

GPA 3.7/4.0

TECHNICAL SKILLS

Programming Competency: Typescript/Javascript, HTML/CSS, Java, Python, C++/C#, SQL

Frameworks & Databases: ReactJS, NodeJS, ExpressJS, Vite, Jest, TailwindCSS, MongoDB, Google Bucket, DynamoDB

Software Tools: Git, Github, AWS, Docker, Redux, Postman, JIRA, Tableau, Figma, Confluence

PROFESSIONAL EXPERIENCE

Fannie Mae— *Incoming Software Engineer Intern*; Dallas, TX

May 2024 – August 2024

Resi Media – *Software Engineer Intern*; Dallas, TX

May 2023 – August 2023

- Contributed to the frontend development of the Resi Studio, a RTMP streaming service utilized by over 5000+ churches, collaborating with cross-functional teams to integrate new functions and enhance user experience on Resi's web app
- Integrated **10+** responsive pages, by collaborating with the UI team to enhance user experience, utilizing **Typescript** and **React** for iterative improvements and ensuring optimal functionality across various device platforms
- Architected a **GraphQL** RESTful API, leveraged **React-chartjs** to create an interactive minute-by-minute viewer count to give clients actionable insight, helping them in identifying areas of improvement within livestreams
- Achieved a **96%** coverage for the front-end Studio through implementing comprehensive unit testing using **Jest** and **RTL**
- Addressed **10+** bugs and managed technical debt, leveraging **Redux**, resulting in a **200%** reduction in error occurrences
- Participated in an Agile environment, engaging in daily standups, demo meetings, grooming sessions, and retrospective

PROJECT

Empower – *Mobile App*; Association of Computer Machinery

March 2023

Equips individuals with disabilities to navigate the world effectively.

- Directed and led a team of 5 individuals through the SDLC, overseeing the project architecture and efficiently delegating tasks using a Kanban board and streamlined project management
- Spearheaded the design and implementation a responsive mobile app utilizing **React Native**, **Expo**, and **Figma**
- Leveraged **AWS** services like **S3** for text/audio files, **Transcribe** for text to speech, and **Polly** for speech to text integration
- Integrated the **OpenAI GPT API** to develop a customized chatbot, tailored to address questions of disabled individuals

LangPortal – *Language Translator*; Artificial Intelligence Society Mentee

November 2023

English to Spanish translator and definition tool using NLP and React/Python

- Fine-tuned an NLP model on the kde4 dataset utilizing **PyTorch** to achieve a BLEU score of 54 and a loss of .7
- Built a **REST API** utilizing **API Gateway/Lambda**, capable of handling GET, POST, PATCH, and DELETE from the app

InstaPick – *Instagram Clone*; Personal Project

July 2023

Social media app utilizing MERN, includes user authentication, photo uploading, commenting, liking, and following functions

- Implemented a responsive user interface, utilizing **React** and **Material-UI**, for seamless user experience across all devices
- Utilized **MongoDB** to store user data, images, and comments, and implemented scalable backend with **Node** and **Express**

LEADERSHIP EXPERIENCE

Machine Learning and Artificial Intelligence Lab – *Research Assistant*; Richardson, TX

January 2024 – Present

- Collaborated to design and develop a machine learning algorithm aimed at identifying DDoS attacks in computer networks
- Conducted extensive quantitative research on traffic generation and intrusion detection, improving in distinguishing between normal and malicious data flows

Noorishment – *Business Section Leader*; Richardson, TX

June 2022 – Present

Nonprofit organization with the goal of exposing students to different career pathways

- Organized and led observation trials on 20+ students to evaluate performance and behavior and tailored lessons accordingly
- Enhanced student learning by optimizing wide range of instructional approaches and innovative classroom activities