

Joshua Mathew

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EDUCATION

The University of Texas at Dallas, Richardson, TX

May 2025

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

GPA 3.5/4.0

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

Tools & Frameworks: ReactJS, NodeJS, ExpressJS, Jest, Redux, RTL, AWS, Vite, TailwindCSS, PyTorch, Git, GCP, Docker

Databases: MongoDB, Google Bucket, DynamoDB

PROFESSIONAL EXPERIENCE

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
- Participated in an **Agile** environment, engaging in daily standups, demo meetings, grooming sessions, and retrospectives
- Integrated 10+ mobile responsive pages, collaborating with the UI team to enhance user experience, incorporating customer feedback for iterative improvements and ensuring optimal functionality across various device platforms
- Partnered with a developer to deploy a GraphQL RESTful API, leveraged React-chartjs to create an interactive minute-by-minute viewer count to give clients actionable insight, aiding them in identifying areas of improvement within livestreams
- Implemented comprehensive unit testing utilizing jest to increase frontend Studio coverage to 96%
- Addressed 10+ bugs in the web app, leading to an increase of the error occurrence detection rate by 200% utilizing redux

Sharon Fellowship – *Sound Engineer*; Dallas, TX

June 2018 – Present

- Manage technical aspects of audio production, manipulating live sound and edit recordings to create finished audio tracks
- Performed regular system backups, data restoration, and disaster recover procedures to ensure nonstop business continuity
- Provided technical support to end-users, addressing hardware and software issues related to desktops and audio equipment

PROJECT

Empower – *Mobile App*; Association of Computer Machinery

October 2022

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

- Designed, coded, and tested a dynamic web app utilizing **ReactJS**, **NodeJS**, and a scalable server-side with **ExpressJS**
- 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

January 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**
- Incorporated **JWT** authentication to secure user data and implement features such as private profiles and posts
- Leveraged **Redux** for state management and **Axios** for handling **HTTP** requests, resulting in a more efficient codebase

LangPortal – *Language Translator*; Artificial Intelligence Society Mentee

October 2022

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LEADERSHIP EXPERIENCE

Noorishment – *Business Section Leader*; Richardson, TX

June 2022 – July 2022

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
- Evaluated and revised lesson plans and course content to facilitate and moderate classroom discussions and student learning

Information Technology and Systems Leadership Council – *Council Member*; Richardson, TX

September 2022 – Present

- Develop 20+ professional events to increase industry opportunities with project, outreach possibilities, and volunteering
- Publicize ITSCLC's branding and digital presence using awareness campaigns to promote 10+ workshops and speaker panels
- Administer 3 social media accounts and produce exclusive templates to provide data relating to professional IT initiatives