Jimmy Lieu

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EDUCATION

University of Texas at Tyler Tyler, TX
Bachelor of Science in Computer Science *May 2025*

EXPERIENCE

Computer Engineering Undergraduate Research Assistant Sept 2023 – Present
University of Texas at Tyler *Tyler, TX*

- Improved data transfer speeds by 25% on embedded boards by optimizing communication protocols for Bluetooth, UWB, and 5G technologies.
- Ensured 99% UWB connectivity and increased data speed by 30% through specialized testing of UWB technology, resulting in enhanced reliability.

Information Technology Support Specialist Aug 2023 – Present
University of Texas at Tyler *Tyler, TX*

- Delivered comprehensive technical support to university faculty, staff, and students, addressing a wide range of hardware or software issues
- Ensured uninterrupted academic and administrative operations by providing timely and effective tech solutions, resulting in improved user satisfaction and minimal disruption to administrative processes
- Maintained a 98% user satisfaction rate through swift issue resolution, managed and documented over 50 support tickets per month

Machine Learning Undergraduate Research Assistant Dec 2023 – May 2024
University of Texas at Tyler *Tyler, TX*

- Achieved a 20% increase in accuracy in predicting CO2 dissolution compared to traditional methods through the application of machine learning techniques
- Contributed to a 30% reduction in analysis time and a 15% decrease in resource utilization by integrating machine learning models into Carbon Capture and Storage frameworks.
- Implemented state-of-the-art algorithms resulting in a 25% improvement in predicting CO2 dissolution rates, demonstrating dedication to enhancing models and staying at the forefront of technological advancements

PROJECTS

Topic Ladder | *ReactJS, ExpressJS, PostgreSQL* Aug 2023 – Dec 2023

- Software Development class, fostering enhanced student and professor engagement by providing a user-friendly interface and streamlined user experience
- Engineered an intuitive frontend/UI/UX with ReactJS, enabling effortless navigation of the web application for users
- Implemented ExpressJS to ensure seamless and real-time data processing for accurate polling results and analysis

Inclusion Clinical System Chatbot | *Flutter* Sept 2023 – Dec 2023

- Developed a healthcare-focused chatbot using OpenAI API, integrating file upload functionality for precise responses
- Utilized Flutter/Dart for seamless mobile interface, ensuring a user-friendly experience within the healthcare domain
- Implemented Natural Language Processing algorithms to enhance its ability to understand and respond to complex medical inquiries accurately

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS
Frameworks/Libraries: React, Node.js, Wordpress, Pandas, Numpy, Sklearn, Matplotlib
Developer Tools: Git, JupyterNotebook, Visual Studio Code, Eclipse, Google CoLab