

Ting Lu

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EDUCATION

University of Michigan

Bachelor of Science in Computer Science

Ann Arbor, MI

Expected May 2025

- Cumulative GPA: 3.8/4.0
- Relevant Coursework: Data Structures & Algorithms, Computer Organization, Computer Security, Web Development, Foundations of Computer Science, Discrete Mathematics, Extended Reality (XR)

Bergen Community College

Associates in Computer Science

Paramus, NJ

September 2020 - December 2021

- Cumulative GPA: 4.0/4.0
- Activities: Phi Theta Kappa Honors Society, Member of BCC's Core Planning Team, Executive of CS Club

EXPERIENCE

VOID Tech

Ann Arbor, MI

Lead Developer / Full Stack Developer

September 2023 – Present

- Spearheaded a team of developers in the creation of a web application for students to find study groups and post class resources for University of Michigan's courses.
- Crafted and deployed REST APIs to showcase posts, enabling users to create posts, and facilitating user participation in course enrollment and withdrawal.
- Engineered a database schema in PostgreSQL hosted using AWS, optimizing database organization for enhanced system performance and scalability.

Bergen Cerullo Learning Assistance Center

Paramus, NJ

Professional Tutor

September 2021 – Present

- Assisted over 100+ students to understand concepts (Mathematics, Physics, and Computer Science) while applying customized teaching techniques in curriculum for each student.
- Held the position of Supplemental Instruction leader, supporting students in courses and increasing the passing rate by 11%.
- Led engaging and interactive sessions to train and mentor fellow tutors in effective communication, active listening, and empathetic support.

Bergen Community College STEM Center

Paramus, NJ

Research Intern

May 2021 – August 2021

- Collaborated and assembled a device using a neural network to translate finger spelling into text using a live video feed to improve the overall communication barrier between Deaf people and hearing people.
- Researched and utilized TensorFlow with object detectors (Convolutional Neural Networks) to compile over 500 finger spelling images to train neural networks and experiment with their accuracy.
- Presented findings of research at STEM Convention and organized a 10+ page research paper on study findings.

PROJECTS

Instagram Clone | *React, Git, SQLite, Flask, AWS*

February 2024

- Utilized React to create interactive client-side dynamic web pages with reusable components.
- Developed authorization functionalities, including user registration, password hashing, and session management.

VirtuWear | *React, Git, SQLite, Flask*

November 2023

- Developed a web application to store and manage user's clothing through a centralized database created with SQLite.
- Implemented machine learning models to analyze images uploaded by users, automating the categorization of clothing items for efficient storage and retrieval.
- Integrated a chatbot for outfit recommendations based on user prompts, enhancing the user experience with personalized styling suggestions.

Skills

Languages: C/C++, C#, Python, Java, HTML/CSS, JavaScript, SQLite, PostgreSQL

Frameworks: React, NodeJS, Flask

Developer Tools: Git, Docker, VS Code, Visual Studio, AWS:EC2

Libraries: pandas, Numpy, Matplotlib