

# SHUYU WU

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## EDUCATION

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### University of Michigan - College of Engineering

Ann Arbor, MI, USA

Starting from 2024.8

*M.S.E student* in Electrical and Computer Engineering, expected to graduate on Dec 2025 or May 2026.

### University of Michigan - College of Engineering

Ann Arbor, MI, USA

2022 – 2024

*B.S.E student* in Computer Science, minor in Mathematics, graduated on May 2024. GPA: 3.91 / 4.00

**Relevant A/A+ course work:** Data Structure & Algorithm, Linear Algebra, Intro to Machine Learning, Intro to Modern Algebra

### Shanghai Jiao Tong University (SJTU) - UM-SJTU Joint Institute

Shanghai, China

2020 – Present

*B.S.E student* in Electrical and computer engineering (ECE), expected to graduate on August 2024. Current GPA: 3.63 / 4.00

**Relevant A/A+ course work:** Programming & Elem. Data Structures, Probabilistic Method in Engineering

## TEACHING EXPERIENCE

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### University of Michigan, Ann Arbor, MI, USA

2023.9 – 2023.12

Grader in EECS 445, Introduction to Machine Learning at University of Michigan.

### Shanghai Jiao Tong University, Shanghai, China

2022.9 – 2022.12

Teaching assistant in MATH 2860J, Honor Mathematics IV; ECE 4010J, Probabilistic Methods in Engineering; ENGR 1010J, Introduction to Computers and Programming at UM-SJTU joint institute.

## INTERN & PROJECT EXPERIENCE

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### Capstone Design at Shanghai Jiao Tong University

2024.5 – present

Supervisor: Kexin Weng, Ziqiao Ma from Amore AI

- Designed and implemented (fine-tune and prompt engineering) a large language model for customized mental support

### Data.algebra.ai Inc.

2024.1 – 2024.5

*Data Engineer* Supervisor: Arif Rahman

Software engineer intern at Data.algebra.ai Inc.

- design and train a model to identify credit card fraud transaction based on transaction data

### Capstone Design at University of Michigan

2023.8 – 2023.12

- Designed and implemented a desktop reader app for people with ADHD to focus on their reading with PyQt

### Diversity Policy Inc.

2023.5 – 2023.8

*Backend and Algorithm Engineer* Supervisor: Dr. Brandon Chicotsky, Arif Rahman

Software engineer intern at Diversity Policy Inc.

- implemented a web crawler to automatically get universities' latest policy and a search engine to search for policy in database
- developed and maintain a Django server for the official website of the company
- used AWS services (EC2, S3, etc.) and Docker to deploy the server
- utilized a ML and NLP approach to classify policy and non-policy webpages

## SKILLS

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- Programming Languages: C++, python, Matlab, Elm, JavaScript
- Database: SQLite, MySQL, PostgreSQL, MongoDB
- Libraries and framework: pandas, scikit-learn, tensorflow, pytorch, django, boto3, whoosh, flask, react
- Development tool: git, GitHub, Docker, nginx
- Web/AI service: Amazon AWS (including EC2, S3 and SNS), OpenAI API

## HONORS AND AWARDS

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<i>Summa Cum Laude (Graduate with the highest distinction), University of Michigan</i>	2024.5
<i>UM-SJTU Joint Institute Advanced Teaching Assistant Certificate</i>	2023.4
<i>SJTU Undergraduate Excellent Scholarship, 3<sup>rd</sup> prize</i>	2021.11