

Kunlin Ruan

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EDUCATION

University of Michigan - Ann Arbor

Bachelor of Science in Engineering degree in Data Science

Expected Graduation: May 2025

GPA: 3.6

Shanghai Jiao Tong University, UM-SJTU Joint Institute

Bachelor of Science in Engineering degree in Electrical and Computer Engineering

Expected Graduation: Aug 2025

PROJECT EXPERIENCE & LEADERSHIP

Instagram Clone Web App - Ann Arbor MI

Jan 2024

- ❖ Created server-side and client-side dynamic instagram clones
- ❖ Wrote a Python program to generate sites with templates and a shell script to run and test
- ❖ Used CSS, HTML, React and REST API; Flask for backend; MySQL for data manipulation
- ❖ Deployed with AWS

Webnote App - Ann Arbor MI

Jan 2024 – Present

<https://github.com/VivianRMS/WebnoteApp.git>

- ❖ Generating bookmarklet for users to take and store notes on webpages with basic web crawling
- ❖ Storing users' custom directories, links and notes with React, Flask and MongoDB

HealthGoal App - Ann Arbor MI

Dec 2023 – Present

<https://github.com/VivianRMS/HealthApp.git>

- ❖ Storing health goals and detailed plans set by users with Firebase
- ❖ Supervising user progress by forming health groups where all group members together make reward and punishment rules
- ❖ Creating UI and backend with Flutter

StoryGen App - Ann Arbor MI

Nov 2023

<https://devpost.com/software/storygen-s0x5tr>

- ❖ Led a team of four to build an app for children to learn new words in the MHacks within 24 hours with React Native and Node.js; score: 2 likes out of 3 judges
- ❖ Generated word-related stories with ChatGPT API, applied NLP libraries to show story structure for a better understanding

Today-I-Learned App - Ann Arbor MI

Sep 2023 - Oct 2023

<https://kun0todayilearned.netlify.app/>

- ❖ Stored facts shared and comments made by users with Supabase
- ❖ Created UI with React, backend with Node.js

RESEARCH EXPERIENCE

AI-assistance Dilemma - Ann Arbor MI

Feb 2024 - Present

Undergrad Research Assistant in Lifelong Learning lab

- ❖ Researching how AI assisted best in the scenario of note-taking in lectures or group meetings
- ❖ Delving into prompt engineering in real-time interactive systems

WORKING EXPERIENCE

The Michigan Daily - Ann Arbor MI

Feb 2024 - Present

Web Developer

- ❖ Building and maintaining the digital newspaper website
- ❖ Using React to build and AWS S3 to deploy
- ❖ Coordinating and communicating with different departments to publish articles in multiple fields

HONORS & AWARDS

Meritorious Winner of the 2023 Mathematical Contest in Modeling

May 2023

- ❖ Analyzed popularity trend of the Wordle game with ARIMA model
- ❖ Applied concepts of entropy and Monte Carlo Experiments to model human-like game strategy

Bronze Medal Winner of The 2022 University Physics Competition

Jan 2023

- ❖ Modeled FIFA penalty kick with MATLAB
- ❖ Decided best shot location, initial ball velocity and spin

SKILLS & COMPETENCIES

- ❖ Programming skills: Python, React, Swift, Flutter, MATLAB, C, C++, Node.js, Elm; Experience and ability in developing projects in these languages
- ❖ Teamwork and communication: Experience of Git and agile development
- ❖ Passion for work: Always ready to learn more, self-disciplined and self-motivated