Kunlin Ruan

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EDUCATION

University of Michigan - Ann Arbor Expected Graduation: May 2025
Bachelor of Science in Engineering degree in Data Science GPA: 3.6
Shanghai Jiao Tong University, UM-SJTU Joint Institute Expected Graduation: Aug 2025
Bachelor of Science in Engineering degree in Electrical and Computer Engineering

EXPERIENCE & LEADERSHIP

Webnote App - Ann Arbor Jan 2024 – Present
https://github.com/VivianRMS/WebnoteApp.git
- ❖ *Generating bookmarklet urls for users to take and store notes on webpages*
- ❖ *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*

Improved the Fatigue Driving Detection Algorithm - Shanghai, China May 2023 - Jun 2023
https://github.com/VivianRMS/Challenge_Cup
- ❖ *Increased accuracy and speed of a given algorithm in the Huawei Competition; score: 0.71/1*
- ❖ *Researched to better analyze tracked human facial features for higher accuracy*
- ❖ *Applied multithread knowledge to boost speed*

SummerSara Web Game - Shanghai, China Jul 2022 - Aug 2022
https://github.com/VivianRMS/VG100/tree/main/p2
- ❖ *Led a team of four to develop a puzzle game featuring four story branches in the Intro to Engineering course; score: top 30%in class*
- ❖ *Created UI with Elm for functional programming, realized agile development with Git*

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*

EXTRACURRICULAR ACTIVITIES

Michigan Hackers - Ann Arbor, MI Nov 2023 – Present
https://github.com/michiganhackers/MCourses.git
- ❖ *Build a course recommendation iOS app in a team of ten with Swift and SwiftUI*

SKILLS & COMPETENCIES

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