Yiming Yao

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Personal Website: https://yimingyao-lab.github.io/AboutMe/

EDUCATION

Master of Science in Computer Science Expected Graduation December 2022
University of Minnesota-Twin Cities, College of Science & Engineering,
Minneapolis, MN | Adviser: Stephen J. Guy
GPA 3.594

Bachelor of Science in Computer Science May 2021
University of Minnesota-Twin Cities, College of Science & Engineering,
Minneapolis, MN
GPA 3.612

Associate of Science in Computer Information Science
Associate of Science in Mathematics May 2019
College of San Mateo
San Mateo, CA
GPA 3.343

SKILLS

Programming Languages: C, C++, C#, Java, Python, HTML, NodeJS, JavaScript
Tools: Android Studio, Unity, Github, Gradle, VisualVM, LaTeX
Software: Microsoft Office, PyCharm, MATLAB, Eclipse IDE, Visual Studio, IntelliJ , R Studio
Operating Systems: Windows, Mac OS, Linux

PROJECT

Mathematical Measures to Estimate Partisan Gerrymandering March 2022 – May 2022
Csci 8715: Spatial Data Science Research, University of Minnesota - Twin Cities

- Formally define six mathematical measurements to estimate partisan gerrymandering
- Perform the computation for various maps in Minnesota to quantify partisan gerrymandering
- Analyzing the mathematical behaviors in estimating partisan gerrymandering
- Validate the effectiveness and accuracy in the experiment

Job Fair in Visual Reality October 2021 - December 2021
Csci 5619: Virtual Reality and 3D Interaction, University of Minnesota - Twin Cities

- Implementing user interface to simulate in-person job fair in Unity
- Using Ray casting to select a target location (locomotion technique)
- Using triangle metaphors to change the yaw of selected object to handle difficult operation
- Using indirect proxy technique to scale the entire scene down and bring within user's reach with a miniature handled model.

Route Planning Software Summer 2020

- Finding the optimal path on the University of Minnesota map by using A* algorithm
- Implement user interface to visualize the path on the map, which contains the transient nodes

- Analyzing accuracy about the solution by comparing theoretical optimal path, which given by our software and actual path on the map
- The source code and analysis report are available on Github: https://github.com/yimingyao-lab/Route-Planing-Software

EXPERIENCE

Summer Intern
IDG Capital, Beijing, China June 2019 – August 2019

- Guiding the data of NEVs batteries energy density into statistical model and predicting their efficiency and life
- Engaging and summarizing the information and data of ADAS and algorithms to build the database
- Designing web crawler in python to catch to the NIO stock information in NASDAQ and analyzing the analyzing the NIO stock price in next five years
- Worked closely with the department director to strategize and implement operations related to market research

LANGUAGE English (SVIEP Level 4), Chinese (Native Language)

AWARDS

University of Minnesota, College of Science & Engineering, Dean's List Spring & Fall 2021
College of San Mateo, Cum Laude Honor 2017 – 2019