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
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 [Dean's List Fall 2020 & Spring 2021]

SKILLS

Programming Languages: Java, Python, C/C++, C#, HTML, Node JS, 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

PROJECTS

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

- Designed a methodology to analysis the characteristics spatial bias in Gerrymandering
- Defined six different measurements in redistricting plans in Minnesota to quantify partisan bias
- Estimated partisan gerrymandering that helps geospatial scientist to propose efficient approaches
- Validated the effectiveness and accuracy in the real dataset with good performance

UI Design for Android App: Help Me Relax February 2021 - May 2021
Csci 5115: UI Design, Implementation & Evaluation, University of Minnesota - Twin Cities

- Designed a stress reliever software to help college students to de-stress mential illness in Android Studio
- Refered to various case studies assessment to generate ideation disclosure
- Implemented a software demonstration to allow users to interact with the app
- Generated user testing to evaluate the performance features and concluded quantitative analysis

Route Planning Software March 2020 – May 2020
Csci 4511W: Artificial Intelligence, University of Minnesota - Twin Cities

- Designed software in Java to support students to navigate with campus maps to find optimal routes
- Layered a graphical user interface (GUI) so users can interact with software and visulalize the path on the map
- Implemented A* algorithm for searching to ensure complete and optimal
- Calculated accuracy about output paths by comparing theoretical optimal paths and tested various special cases to ensure quality

EXPERIENCE

Summer Intern Assistant March 2022 – May 2022
IDG Captial, Beijing, China

- Participated due diligence of EV company to understand business needs and technical barriers
- Collaborated with group to build / update financial analysis models to predict trend of EV companys
- Mined data related to ADAS algorithms and hardwares with technique reports and presented in meetings
- Problem-solved issues related to technology, including database, software, and computer
- Worked closely with the department director to strategize and implement operation related to market research

LANGUAGE

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