Kyle Poage

kpoage@wisc.edu | (925) 360-3306 | Website: https://kpoage12.github.io/

Education

University of Wisconsin-Madison   May 2026

Triple Major B.S. Computer Science, Economics, Mathematics

3.80 GPA

Relevant Coursework

Algorithms, Machine Organization, Programming III, Database Management Systems, Linear Algebra, Multivariable Calculus, Analysis I, Probability Theory, Econometrics, Intermediate Microeconomic and Macroeconomic Theory, Analytical Public Finance

Technical Skills: Java, C/C++, JavaScript, React.js, Node.js, SQL, Git, HTML, Stata, R

Projects

Poker Emulator   May 2024 - Present
- Created a poker game using Node.js and WebSockets to concurrently play with friends online
- Implemented game logic and backend using JavaScript with an HTML and CSS frontend

Flight Router   October 2023 - December 2023
- Read data representing different airports and flights from a dot file and inserted them into a graph
- Implemented Dijkstra's algorithm to find the shortest route between two airports, minimizing the mileage between the two

Car Organizer   August 2023 - October 2023
- Implemented an iterable, multikey red-black tree to store different cars by mileage
- Developed an interactive frontend loop allowing users to load different CSV files and list the cars by mileage

Mask Detector   November 2021 - January 2022
- Trained a mask detector model using convolutional neural networks to detect whether or not a person is wearing a mask. Used Python and TensorFlow
- Resulted in an accuracy of 98.43 percent

Relevant Experiences

Programming III Teaching Assistant   September 2024 - Present
- Held weekly office hours to assist Programming III students with debugging, code structuring, and conceptual explanations in Java.
- Collaborated with professors and TAs to develop course materials and Q&A resources
- Utilized Java extensively for debugging, problem-solving, and guiding students through complex programming challenges

Computer Science Tutor   January 2024 - May 2024
- Held weekly tutoring sessions for UW Madison students in Programming II, Programming III and Discrete Math
- Helped students better understand computer science topics such as data structures, algorithms, and web development

Phi Delta Theta Assistant Rush Chair   June 2023 - January 2024
- Coordinated events, reached out to students, and Recruited 19 new members