

Kyle Poage

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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, Python, 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 office hours throughout the week to assist students in Programming III with program issues and topic explanation
- Worked with course professors and TA's to create Q&A's and develop curriculum

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 for potential new members, reached out to students, and collaborated with a team to prepare our rush schedule
- Recruited 19 new members through interviews, events, and tablings