

# Kyle Poage

kpoage@wisc.edu | (925) 360-3306 | Website: <https://kyle-poage-portfolio.vercel.app>

## Education

### University of Wisconsin-Madison

B.S. Computer Science, Economics  
Certificate in Mathematics

May 2026

3.83 GPA

### Relevant Coursework:

Operating Systems, Database Management Systems, Algorithms, Machine Organization, User Interfaces, Linear Algebra, Multivariable Calculus, Combinatorics, Econometrics, Game Theory, Probability Theory

### Relevant Experience

#### Software Engineering Intern | *React, Django ORM, Python*

May 2025 - Aug 2025

Whova, Inc.

San Diego, CA

- Developed internal tools using Django and React to streamline Sales Team processes and improve interdepartmental communication
- Designed RESTful APIs with Django Rest Framework handling authentication, pagination, and business logic for internal tools used across multiple teams
- Optimized Django ORM queries and filters to improve performance and scalability of internal data workflows
- Integrated Gmail API to automatically ingest ~100+ incoming messages per week into the database, eliminating manual data entry for the Marketing team
- Used Redux for state management to support dynamic UI features and seamless user interaction

#### Undergraduate Teaching Assistant | *Java, Google Cloud, JUnit*

Sep 2024 - May 2025

UW-Madison

Madison, WI

- 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
- Guided students through debugging complex Java programs, emphasizing independent problem-solving and structured debugging strategies

### Projects

#### WSH - Custom Unix Shell | *C, POSIX, Linux*

Sep 2025 - Oct 2025

- Implemented multi-stage pipeline execution with fork, execv, dup2, and UNIX pipes enabling concurrent, interprocess communication between 120+ chained commands and proper process control
- Developed built-in commands, PATH resolution, and dynamic data structures (hash maps for aliases, dynamic arrays for history) to support flexible command execution and persistent shell state

#### TEL Real Estate | *Python, Flask*

Feb 2025 - Apr 2025

- Project under UW-Madison's Tech Exploration Lab aiming to design a feature that verifies disability accessibility for short term Airbnb rentals.
- Used Flask to design API's to list rentals, apply rentals for validation, and confirm rentals for validation

#### Poker Emulator | *Node.js, WebSockets, JavaScript*

Jun 2024 - Feb 2025

- 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

### Technical Skills:

**Languages:** Java, Python, JavaScript, C, SQL, HTML/CSS, R, Stata

**Frameworks & Libraries:** React, Django ORM, Flask, Node.js

**Tools & Platforms:** Git, Redux, UNIX/Linux, Docker