Mitchell Brenner

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https://mitchbrenner.github.io/My-Website □ github.com/MitchBrenner □ linkedin.com/in/mitchell-brenner-124240230

EDUCATION

University of Wisconsin - Madison (GPA: 3.5)   May 2024 Anticipated
B.S. in Computer Science and Data Science

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML, CSS, C, R   **Tools**: Git, Linux, Visual Studio
Courses: Algorithms, Data Structures, Machine Organization, Data Modeling, Databases, User Interfaces

PROJECTS

Badger Chat Website and App – https://github.com/CS571-F23/hw6-MitchBrenner
- Developed a Full-Stack React Web App with real-time chat, API integration, and responsive design. Implemented user authentication, dynamic navigation, and post management for enhanced interactivity.
- Transformed Badger Chat into a React Native mobile app, showcasing cross-platform development expertise. Integrated secure user authentication for seamless registration, serving more than 300 students.

Push Up Pong – https://github.com/bluepra/PushUpPong
- Developed a workout game using face-api.js that employs machine learning models to detect and utilize facial movements, specifically the nose, to control the in-game paddle.
- Achieved 2nd place overall and Best Video Game award at UncommonHacks at the University of Chicago.

Flights Finder
- Developed a Java application that implements Dijkstra's shortest path algorithm to traverse a graph, utilizing a min heap priority queue with a runtime of $O(m \log n)$.
- The application enables users to find the shortest path and its cost between two airports.

Bioinformatics DNA Transcription
- Developed a Java application that implements a linked queue data structure to process DNA strings into mRNA and subsequently translate them into amino acids.

Computer Vision Snake Game
- Designed a Python computer vision application that recreates the popular Snake.io game.
- Implemented hand tracking with OpenCV and rendered the interactive graphical interface using PyGame.

Personal Website – https://mitchbrenner.github.io/My-Website
- Developed and launched a website using HTML, CSS, JavaScript, and other libraries.
- Serves as a portfolio to showcase my personal projects.

WORK EXPERIENCE

Buffalo Wild Wings   May 2023 – Present
Bartender, Server, Cashier   *Madison, WI*
- Mastered multitasking, handling bartending, serving, and cashier responsibilities with little supervision.
- Kept the bar area safe, clean, and well-stocked throughout each working shift.

Sunnydaze Decor   May 2020 – Aug 2021
Warehouse Package Handler - Seasonal   *Eau Claire, WI*
- Performed all warehouse duties including picking, packing, and labeling packages at an efficient rate.
- Loaded, unloaded, and counted packages while following company guidelines.

OTHER INTERESTS

- Soccer, snowboarding, weight training, hiking, camping, and reading.