

Matthew Barnes

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Computer Science student proficient in C, C++, and C#, with experience in full-stack and iOS development. Adaptable and determined problem-solver with leadership skills and a strong ability to work in team-based environments.

SKILLS

Languages: C, C++, C#, Python, JavaScript, HTML, CSS

Tools: Git, GitHub, Visual Studio, MS Office

Platforms: macOS, Linux/Unix, Windows

PROJECTS

Web Development | [Flick Finder](#) – **Movie Suggestion Website (JavaScript, HTML, CSS)**

- Utilizes the OpenAI API to generate personalized movie recommendations based on user input.
- OpenAI API model: gpt-3.5-turbo. Designed for contextual understanding, allowing for accurate suggestions.
- Integrated TMDB API to fetch and display appropriate movie posters aligned with OpenAI API's suggestions.
- Designed a responsive UI using modern CSS.

Collaborative Software Development | **Battleship (C++, SFML)**

- Led the development of the game board, menu, and ship mechanics, ensuring seamless user experience.
- Implemented branching strategies and utilized Git & GitHub for version control, maintaining code integrity and efficient team collaboration.
- Coordinated with team members through code reviews, enhancing code quality and maintainability.

Mobile Development | **Memory Card Game (Swift, SwiftUI)**

- Designed an intuitive UI using SwiftUI, ensuring a seamless and responsive user interface.
- Engineered game logic for randomized card placement, matching mechanics, and score tracking.
- Ensured scalable architecture with reusable components, facilitating future feature additions and updates.

EDUCATION

Washington State University, Pullman, WA
Bachelor of Science – Computer Science

Expected graduation date: Dec 2026

RELEVANT COURSE WORK

Computer Programming, Washington State University. **Intro to Computer Architecture, Washington State University**

Program Design & Development, Washington State University **Discrete Structures, Washington State University**

Data Structures, Washington State University

Introductory Linear Algebra, Washington State University

Advanced Data Structures, Washington State University

Calculus I, II, III, Washington State University

WORK EXPERIENCE

Staff Assistant – WSU Libraries | Sep 2022 – Present

Front Desk Associate – LA Fitness | Jan 2021 – Jan 2022

Delivery Driver – Amazon DSP | May 2024 – Aug 2024

Inventory Associate – CarMax | Sep 2021 – Jan 2022

Warehouse Associate – Amazon | May 2023 – Aug 2023.

Team Sports – DICK's | Aug 2020 – Dec 2020

General Laborer – MaxCare | May 2022 – Aug 2022

Crew Member – Dairy Queen | Mar 2019 – Aug 2020