# 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*          Expected graduation date: Dec 2026

    Bachelor of Science – Computer Science

## 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*

**Delivery Driver – Amazon DSP** | *May 2024 – Aug 2024*

**Warehouse Associate – Amazon** | *May 2023 – Aug 2023.*

**General Laborer – MaxCare** | *May 2022 – Aug 2022*
**Front Desk Associate – LA Fitness** | *Jan 2021 – Jan 2022*

**Inventory Associate – CarMax** | *Sep 2021 – Jan 2022*

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

**Crew Member – Dairy Queen** | *Mar 2019 – Aug 2020*