

Austin Tarrach

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EDUCATION

Bachelor of Science in Computer Science

Washington State University, Pullman, WA

Expected: August 2025

3.2 GPA

Specialized Coursework: Web Design and Development (HTML/CSS), Computer Networks and Security, Project Design and Development, Computer Architecture, Discrete Structures, Big data

SKILLS

Languages: JavaScript, Python, EJS, HTML/CSS

Database Tools: MongoDB (Atlas), MySQL, NoSQL

Web development: Node.JS, Express.JS, Flask

Tools and Frameworks: Git, Visual Studio Code, NPM, Ubuntu

Cloud Services: Render, AWS

PROJECTS

Portfolio; Personal website (Featured Project)

October 2024 – Current

- Developed a cutting-edge online showcase using Express.js wherein 100% of traffic was routed seamlessly via customized middleware solutions, enhancing overall functionality and promoting increased interactivity amongst users on the site.
- Implemented server-side rendering of content for my personal website using EJS and JavaScript, optimizing load times and improving SEO by delivering pre-rendered HTML to users and search engine crawlers more efficiently.
- Integrated a MongoDB database to manage and store content, such as blog posts and comments, optimizing data retrieval by leveraging document references, reducing query response times by up to 40% compared to traditional relational databases in similar use cases.
- Engineered the backend functionality with JavaScript, including routes for content rendering, user authentication, and database operations.

Receipt Scanner; Hackathon project

February 2024

- Engineered a web-based application leveraging Optical Character Recognition (OCR) technology for scanning and extracting itemized data from receipts.
- Implemented an evolving, user-friendly front-end using a combination of HTML and JavaScript, enabling real-time updates as users assign items to individuals, edit, add, or remove items as needed.
- Collaborated with a team to develop the application, leveraging diverse programming skills and effective communication to design and implement user-friendly features and robust data processing.

Cart Optimizer Application; Web application

January 2023 - May 2023

- Built a web application using Python, HTML, and CSS to help users find the cheapest Magic: The Gathering cards through real-time pricing queries.
- Implemented backend logic in Python to fetch, process, and display card pricing data efficiently, ensuring accurate and up-to-date results.
- Demonstrated proficiency with AWS by utilizing it to securely store cart information in the Cart Optimizer project, showcasing skills in cloud-based storage solutions and integration with application workflows.

RESPONSIBILITIES

Software Development Club; Treasurer

September 2024 - Current

- Co-founded the Software Development Club, fostering collaboration through team-based projects that simulate real-world software development environments.
- Serving as first Treasurer in club history, creating and managing club finances and securing funding for operations and member resources.

Washington State University Voiland College; Teaching Assistant

January 2025 – Current

- Facilitated interactive lab sessions for undergraduate students, providing hands-on support and guidance to enhance understanding of course material and improve technical skills.