Nathan Davis

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Education

Weber State University – BS in Computer Science, 3.77 GPA | *cum laude*   Apr 2024

Skills

Programming Languages: C#, JavaScript, TypeScript, Python, HTML, CSS, SQL, C++
Frameworks: .NET, Tailwind, React, Next.js, Django, Playwright, Bootstrap
DevOps/Tools: Git, Agile, CI/CD (GitHub Actions), Microsoft SQL Server, MySQL

Technical Projects

CAPSTONE: Appointment Scheduling System | *C#, .NET, JavaScript, HTML/CSS, Bootstrap, Git*   Feb 2024 – Apr 2024
github.com/nathandavis18/Steamboat-Willie

- Led the development of a SaaS platform enabling students to schedule appointments with advisors and instructors; adopted by Weber State University for educational and non-commercial purposes
- Enhanced minimum viable product (MVP) functionality by incorporating user feedback, improving UI/UX and overall system usability based on real-world advisor and student feedback
- Designed and implemented an efficient filtering algorithm, reducing appointment search time and improving accessibility for students
- Integrated Google Calendar API, enabling automated appointment synchronization
- Integrated OAuth2.0 authentication with Google and Microsoft login, enhancing security and providing seamless third-party authentication

Terminal-Based Text Editor | *C++, CMake, GitHub Actions, Git*   July 2024 – Present
nathandavis18.com/Projects/NotVim-Editor

- Engineered a high-performance, cross-platform text editor in C++ with zero dependencies, ensuring a lightweight, standalone application
- Designed and implemented low-level rendering algorithms to optimize speed for a smooth editing experience
- Integrated OS-specific APIs to handle keyboard inputs and text rendering for cross-platform compatibility
- Designed and implemented a token-based syntax highlighting system to highlight keywords and comments
- Implemented CI/CD pipelines using GitHub Actions to automate build and release processes

Recipe Sharing Site | *TypeScript, React/Next.js, TailwindCSS, Django, Python, Git*   July 2024 – Present
github.com/nathandavis18/Recipe-Sharing-Site

- Developed a full-stack recipe-sharing platform using TypeScript, React/Next.js, and Django, enabling users to create, store, and delete recipes
- Implemented a responsive UI/UX with TailwindCSS, ensuring seamless browsing across devices
- Designed and integrated a Django-based REST API, handling GET, POST, and DELETE functions

Data Structures and Algorithms | *C++*   Oct 2023 - June 2024
github.com/nathandavis18/Projects

- Designed and implemented custom data structures (iterators and vectors) in C++ to learn memory management
- Developed high-performing algorithms in C++ to learn algorithm implementation and design
- Benchmarked algorithms against standard library equivalents, achieving equivalent speed and memory performance

Experience

Personal Shopper - Walmart, Layton, UT   Aug 2020 – Present

- Optimized picking operations to increase efficiency by 10%, achieving a consistent rate of 200 items/hour with zero compromise on quality, boosting overall customer satisfaction
- Trained and mentored 10+ new hires, streamlining onboarding processes and enhancing team productivity