Naoki Miyagawa

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Projects

Online DAW (Digital audio workstation) | *website*   *SvelteKit*
- Use of the **Audioengine** Javascript class to allow for live audio playback.
- Use of **Svelte components** and use of **Svelte stores** to create a well integrated app and manage a complex set of data
- Use of **event listeners** to manage a complex UI including a draggable caret to reflect current bar number, adding and removing tracks and audio regions and bars, and toggling a separate MIDI editor for each unique track.

Typing game | *website*   *ReactJS*
- Incorporated **React custom hooks, states and effects** for seamless local data fetching and state management, and object destructuring for connecting components easily.
- Successfully attempted to use **TypeScript** to make error handling easier and used static types for the vast majority of my states to ensure readability and compatibility between variables

Knights Tour autosolver | *source code*   *Python,Pygame*
- Use of **Pygame** to create a chessboard UI that would allow for the user to watch the puzzle being solved in real time
- Use of Warnsdorffs rule incorporating a heuristic approach to correctly identify the shortest path for the player

Experience

GO outdoors (JD group)   **July, 2022 – September, 2023**
Retail assistant (part-time)   *Bristol*

- Operated tills and processed various forms of payment from customers
- Processed returns and exchanges, keeping customer satisfaction high whilst still adhering to company procedures and rules
- Handled phone calls inquiring availability of products and managed and replenished inventory and stock
- Managed order processing ensuring customers receive the correct items and checking off fulfilled orders to display accurate stock levels on the intranet

Education

Aberystwyth University   **2023-2026**
Computer Science & AI (BSc)   *Aberystwyth*
- Grade average (2nd year) - 57% (Not yet got marks for third year sem 1 marks)
- Courses: Advanced algorithms, Machine learning, Mobile development with Android, web design and the user experience, web development, Algorithms and data structures,

Backwell School   **2017-2023**
GCSE & A-Level   *Bristol*
- A-Level Grades CDD

Technical skills

Languages: HTML, CSS, Javascript, Java, Kotlin, PHP, SQL
Developer Tools: Git, Figma
Libraries / frameworks: ReactJS, SvelteKit, TailwindCSS

Other skills

- Japanese fluency (speaking, reading, writing)
- Grade 3 & 5 in guitar
- Completed 35 & 45 mile and attempted 55 mile Ten Tors challenge - Navigating Dartmoor's unforgiving terrain as a 6 person team of young adults to complete the specified walking distance within around 30 hours carrying all food, cooking gear, shelter and clothes in often severe weather conditions