Mac Burton

FRONT-END DEVELOPER & UI/UX SPECIALIST

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Experience

Aethera Technologies | Full-Stack Software Engineer   **Apr 2024 – Oct 2024**

- Developed and deployed full-stack software solutions, utilizing **Python libraries** to create middleware for **TCP-based communication** between hardware and software systems.
- Designed and implemented **user interfaces** for control systems, streamlining user interactions with embedded hardware.
- Integrated **signal processing** and **control algorithms** to enhance the performance of hardware systems and facilitate seamless data transmission.
- Created and maintained detailed design documentation and conducted thorough **system-level testing**, ensuring robust and reliable software for embedded platforms.

Department of National Defense | CAF Army Musician   **Jun 2019 – Present**

- Provided musical accompaniment for military ceremonies and public performances, representing the Canadian Armed Forces (CAF) in both formal and community events.
- Delivered **IT support** to CAF members during full-time summer employment, improving issue resolution efficiency and reducing dependency on external IT services.
- Managed the unit canteen, including purchasing inventory, tracking IOUs, and handling cash transactions, demonstrating **organizational** and **financial management** skills.
- Appointed **Safety 2IC (Second-in-Command)** due to demonstrated professionalism, leadership, and commitment to military protocols.
- Appointed **Social Committee Representative**, attending meetings with unit representatives to plan social events and providing feedback and advice based on members' concerns and funding inquiries.

Skills & Abilities

Technical Skills

- **Languages & Frameworks**: HTML, CSS, JavaScript, React, jQuery, PHP, WordPress
- **UI/UX Design Tools**: Figma, paint.net, PyQt5, Prototyping, Wireframing, Design Systems
- **Development Tools**: Git, GitHub, Docker, BrowserStack, WordPress, AI Prompt Engineering
- **Testing**: Unit Testing, Integration Testing, Cross-Browser Testing, Accessibility Testing
- **Development Methodologies**: Agile, Scrum, Kanban
- **Responsive Design**: Mobile-First Design, Breakpoints, Fluid Layouts, Cross-Device Testing
- **Collaboration Tools**: Jira, Trello, Slack, Figma (Collaboration Features), Github Projects
- **Accessibility**: WCAG Standards, ARIA Labels, Screen Reader Testing, Contrast Checking

Soft Skills
Adaptability, Attention to Detail, Creativity, Communication, Problem-Solving, User-Centered Design Thinking, Collaboration with Cross-Functional Teams

Freelance Experience

Chebucto Symphony Orchestra | Freelance Web Designer & Developer   **Nov 2023 – Present**

- Redesigned and modernized the orchestra's website, improving navigation and creating a responsive, user-friendly interface using **HTML, CSS, JavaScript, and WordPress**.
- Developed custom assets and icons (e.g., ticket symbol, person menu) using **Paint.NET**, ensuring visual consistency across the site.
- Added custom CSS for cross-device responsiveness and self-hosted the website to maintain performance and uptime.

Platle, *Wordle*-Style Web App | Freelance Web Designer & Developer   **Dec 2024**

- Designed and developed a gamified web app that allows users to find valid words from Nova Scotia license plates using **HTML, CSS, JavaScript, PHP, and jQuery**.
- Integrated a Scrabble dictionary and regex for efficient file parsing and input validation, ensuring accurate results.
- Created a responsive interface with dynamic visual and audio feedback, enhancing user engagement and error correction.

Personal Project

Personal Portfolio Website v1.0 & v2.0   **Jun 2024 – Sept 2024**
Sept 2023 – Dec 2023

- Designed and developed a custom portfolio website using **HTML, CSS, JavaScript, PHP, and jQuery**, featuring a responsive design and interactive elements.
- Built an interactive microgame using JavaScript, including animations and sound effects, to enhance user engagement.
- Self-hosted the website, ensuring full control over performance and customization.

Extracurricular

Guest Speaker: UI/UX Specialist – Shiftkey Labs   **Oct 2024**

Founder and President – Dalhousie Trading Card Game Society   **Sept 2019 – May 2023**

Education

Dalhousie University – Bachelor of Computer Science with Co-op   **Oct 2023**

Dalhousie University – Certificate of User Experience Design and Evaluation   **Oct 2023**

Scholarships & Awards

Nokia 3310 Jam 6 – Top 5% in Innovation   **Feb 2024**
Global Game Jam – People's Choice Award: Most Creative   **Jan 2024**
Global Game Jam – Ubisoft's Choice Award   **Feb 2023**
Greenlight Jam – 1st Place Best Plan for Diversifiers   **Jun 2022**
Atlantic Game Jam – 3rd Place Overall   **Feb 2022**
Atlantic Game Jam – 1st Place in Mechanics   **Feb 2022**
Dalhousie University – Sexton Scholar   **Aug 2021**