

Madilynn Wright

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SKILLS

Programming: Java, Python, C/C++, Embedded C, R, TypeScript, JavaScript, HTML/CSS, SQL (Oracle)
Tools: React, Node.js, Swing, JUnit, Tailwind CSS, Git/GitHub, VS Code, Jupyter, Figma, Docker
Analysis: Data visualization and collection (pandas, NumPy, Matplotlib), Circuits, Microprocessors

EXPERIENCE

Software Team Lead

Sep. 2025 – Present

UBC MINT | *TypeScript, React, WebSocket, Git/GitHub, Figma*

- Successfully leading frontend development for MOSS, an open-source neurotechnology platform for real-time brainwave visualization, coordinating work across frontend, backend, and design teams
- Established structured GitHub workflows (pull requests, reviews, branching), improving code consistency and reducing integration issues across contributors
- Direct weekly sprint meetings and task planning, ensuring alignment between Figma designs and final implementation while maintaining project momentum

Web Developer

Sep. 2025 – Present

UBC Girls in Steam | *HTML, CSS, JavaScript, React, Git/GitHub, Figma*

- Successfully developing and maintaining the organization's website and annual conference site using HTML, CSS, JavaScript, and React, supporting outreach to students, sponsors, and speakers
- Implemented responsive layouts and accessibility best practices, improving cross-device usability and ensuring inclusive access to event information
- Collaborating closely with design and content teams to translate requirements into clear, user-centered interfaces

Software Developer

Aug. 2025 – Present

UBC Startups | *React, JavaScript, CSS, Git/GitHub, Jira*

- Contributing to the development of UBC Startups' web platforms using React, JavaScript, and CSS, improving visual consistency and navigation across pages
- Supporting agile collaboration through GitHub and Jira, helping track issues, manage tasks, and streamline team communication
- Assist in iterative feature development and refinement, ensuring updates meet needs and project timelines

Frontend Developer

June, 2025 – Sep. 2025

UBC MINT | *TypeScript, React, WebSocket, Git/GitHub, REST APIs*

- Developed interactive frontend components using TypeScript, React, React Flow, and WebSocket, enabling real-time visualization of neurodata streams
- Integrated frontend components with backend APIs, improving data flow reliability and system responsiveness
- Improved codebase scalability and team efficiency by adopting consistent version control and pull request review practices

PROJECTS

MINT Open Source System (MOSS)

TypeScript, React, Figma, Git/GitHub, REST APIs

- Proficiently developing and leading frontend implementation for an open-source neurotechnology platform enabling real-time brainwave data collection, processing, and visualization
- Implementing responsive, reusable UI components while coordinating development across multiple teams

Arc'connect

React, HTML, CSS, JavaScript, Figma, Git/GitHub

- Smoothly led frontend development during a 24-hour hackathon, delivering a functional Chrome extension connecting users with Arc'teryx community programs
- Designed intuitive UI prototypes in Figma and translated them into a production-ready browser extension under tight deadlines
- Collaborated with a cross-functional team to deliver a complete working demo within the hackathon timeframe

LitLog

Java, Swing, JUnit, Git/GitHub

- Successfully designed and developed a Java desktop application for personal library management, enabling users to organize, track, and review reading progress
- Implemented a user-friendly Swing GUI with clear navigation and real-time feedback, improving overall usability
- Applied object-oriented design principles to create a scalable, maintainable codebase

Red Wine Quality Prediction Model

R, Jupyter, KNN, Git/GitHub

- Effectively collaborated on building a machine learning model using K-Nearest Neighbors (KNN) to predict red wine quality from physicochemical attributes
- Preprocessed and normalized datasets to improve distance-based model performance and reduce feature bias
- Evaluated model accuracy using quantitative metrics and visualized results in R, enabling clear comparison of model outcomes

AWARDS

OPG Secondary School Student Achievement Award (SSSAA)

- Awarded the OPG Secondary School Student Achievement Award for academic excellence (3.3+ GPA), leadership skills, and community involvement, with a focus on science and technology

EDUCATION

BSc Combined Major in Science, Specializing in Computer Science (in-progress)

UBC, Vancouver

Relevant courses: Computation, Programs, and Programming; Models of Computation; Software Construction; Introduction to Computer Systems; Basic Algorithms and Data Structures; Introduction to Relational Databases; Applied Machine Learning; Elementary Statistics for Applications