MARA LIWAYWAY DAVID

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TECHNICAL SKILLS

Languages: JavaScript, TypeScript, C++, Python, HTML, CSS
Libraries/Frameworks: React.js, Next.js, Tailwind CSS
Developer Tools: Git, GitHub, Visual Code Studio, Figma

TECHNICAL WORK EXPERIENCE

Coding Instructor May 2024 – Present
SFU Science Alive *Surrey, BC*
- Delivered engaging lessons in AI/ML concepts to 40+ students, introducing core programming and debugging techniques
- Collaborated with students to optimize JavaScript-based image classifiers, enhancing understanding of algorithms
- Designed and led workshops focused on UI/UX best practices and accessibility, ensuring inclusive learning for all
- Assisted students with troubleshooting code and optimizing algorithms using attention to detail in identifying issues
- Developed and maintained teaching materials that helped students improve their coding skills in real-world applications

TECHNICAL PROJECTS

LockedIn ↗ | *React.js, Tailwind CSS, Figma, LeetCode API, Google Authentication, Airtable* Jan 2025
- Collaborated with a team of 4 to build a motivational app for computer science students in 24 hours
- Designed app interface and mascot using Figma, ensuring a cohesive and engaging user experience
- Built responsive front-end components with React.js and Tailwind CSS, focusing on intuitive user interactions
- Documented test results and communicated bug reports effectively to developers to ensure timely resolution
- Applied Agile development practices, including version control with Git and conflict resolution during merges

Emergency Report System ↗ | *JavaScript, Leaflet API, HTML, CSS* Nov 2024 – Dec 2024
- Worked in a group of 5 to build a web-based emergency report system, earning a 95% project grade
- Implemented an interactive map with JavaScript and Leaflet API to visualize emergency reports
- Wrote and executed test cases to validate map features and form submissions, identifying and reporting defects

Min Heap ↗ | *C++* Oct 2024
- Earned 100% on a data structures project requiring the implementation of a generic min-heap in C++
- Engineered a min-heap with optimized $O(\log n)$ insertion and deletion operations, performing manual tests to validate heap structure
- Developed test scripts to verify heap operations and edge cases, ensuring robustness in various scenarios

Try/Catch 2024 Website ↗ | *JavaScript, HTML, CSS* Jul 2024 – Oct 2024
- Redesigned the event website to improve accessibility and user experience for over 100 participants
- Optimized CSS for mobile responsiveness, ensuring smooth navigation across devices of varying screen sizes
- Led testing efforts to ensure the website's responsiveness and accessibility, running multiple test cases on different devices

EXTRA-CURRICULAR LEADERSHIP EXPERIENCE

Co-Events Coordinator May 2024 – Present
SFU Women in Computing Science *Burnaby, BC*
- Organized 10+ events for 400+ female and non-binary Computing Science students, promoting engagement
- Successfully organized and executed 3 events in one week, welcoming 30+ new students to the department
- Collaborated with cross-functional teams to align event planning with organizational goals

Chatbot with Pepper Workshop Host Oct 2024
Try/Catch 2024, SFU Women in Computing Science *Burnaby, BC*
- Led a workshop teaching 60 high school students how to code chatbots using Python and the NAOqi framework
- Configured and deployed Python scripts on Pepper the Robot, troubleshooting technical issues during the session
- Resolved technical issues in a fast-paced environment to ensure smooth workshop execution

EDUCATION

Simon Fraser University Burnaby, BC
Bachelor of Science, Major in Computing Science *Sep 2023 – Present*