
NEEL SADAFULE

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TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++, C#, MATLAB
 - **Web/Mobile Development:** HTML5, CSS3, JavaScript, Bootstrap, React.js, Next.js, React Native
 - **Database Management:** MySQL, MongoDB
 - **Tools and Platforms:** AnyLogic, Linux, Git, GitHub, Visual Studio Code, Figma, Balsamiq, AdobeXD
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NON-TECHNICAL SKILLS

- Excellent written and verbal communication skills.
 - Ability to work in high-pressure situations.
 - Teamwork and organizing skills acquired from working on group projects.
 - Can adapt to situations which require urgency and multi-tasking.
 - Quick learner and willing to take challenges.
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PROJECTS

Operations Research (Capstone Project)

Jan 2024 - Present

Operations Research Clinic, MATH 402W, SFU

- Leveraged operations research, including discrete event simulation and data analysis of EMR data, to optimize panel sizes for healthcare practitioners at VCH, aiming for balanced patient care and practitioner well-being.
- Identified optimal panel sizes through simulations, emphasizing the need for tailored approaches over average-based methods to meet diverse patient needs and practitioner schedules.
- Highlighted simulation models' role in improving healthcare delivery and outlined directions for adopting dynamic, data-driven panel size optimization strategies in future healthcare research.

Weather App built using React Native

Feb 2024 - March 2024

Personal Project

- Developed a cross-platform mobile app using React Native to provide current and forecast weather conditions.
- Implemented Axios with the Weather API to fetch and display weather data based on the user's location or a searched city and integrated Async Storage for persisting user preferences.
- Implemented a dynamic and responsive UI that reflects current weather conditions, a 7-day weather forecast, and atmospheric details like wind speed and humidity.
- Designed for both iOS and Android platforms, with testing conducted to ensure a seamless user experience across devices.

Personal Portfolio built using React.js

Dec 2024 - Present

Personal Project

- Developed a comprehensive React portfolio showcasing proficiency in component composition, state management, and responsive design.
- Employed version control with Git to manage and track changes throughout the development process, facilitating code maintenance.
- Utilized NPM to manage project dependencies and streamline the build process, ensuring a well organized and efficient development workflow.

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PROJECTS

Urban Shack

July 2023 - Oct 2023

Google UX Design Professional Certificate

- Developed 'Urban Shack,' a unique food delivery app with a unique group ordering feature for easy tracking and balance settlement.
- Utilized user research and interviews to design and refine paper wireframes, low-fi, and high-fi prototypes through iterative processes.
- Improved user experience continuously, leveraging insights from usability studies and feedback.

SFU Mountain Mayhem

July 2023

Mountain Top Game Jam 2023

- Collaborated in developing "SFU's Mountain Mayhem," a dynamic game crafted within a 24-hour timeframe during a game jam.
- Utilized Unity to construct the gaming environment and wrote C# scripts to control various in-game behaviors.
- Played a key role in graphic design and UI development, ensuring a seamless and engaging user experience.

WORK EXPERIENCE

Robotics and Coding Instructor

Mar 2024 - Present

Cloverdale Robotics – Surrey, BC

- Lead and manage dynamic classes in Robotics, Coding, and Digital Arts, tailoring lessons to harness the full potential of each student.
- Oversee the distribution and maintenance of high-tech hardware resources, ensuring seamless integration into the learning environment.
- Conduct monthly performance assessments and align teaching strategies with key performance indicators to ensure educational excellence.

Merchandiser

Feb 2022 - Dec 2023

Brand Momentum – New Westminster, BC

- Implemented effective merchandising strategies at retail stores, ensuring optimal product presentation through proper rotation, restocking, and distribution.
- Achieved Planograms and schematics compliance, enhancing the visual appeal of store sections.
- Streamlined operational processes by submitting daily visit reports and call reports, ensuring clear communication and documentation of merchandising activities.

EDUCATION AND CERTIFICATIONS

Simon Fraser University

Jan 2020 - Present

Bachelor of Science - BSc Computing Science and a Mathematics Minor.

- Meta Front-End Developer Professional Certificate
- Google UX Design Professional Certificate
- Programming in JavaScript by Meta
- Programming in Python by Meta