

MASTAAN RANDHAWA

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SKILLS:

Technical Skills - Python, C/C++, Assembly, JavaScript, HTML/CSS

Frameworks - Bootstrap, ReactJS, ThreeJS, SpringBoot, TailWind

Others - Git, MongoDB, MySQL/SQL/SQLite, Figma, Render, Docker, AWS, REST API

PROJECTS:

Website Template

2024 December - Present

- Developed a modern, responsive template tailored for churches, using React and AWS for seamless deployment.
- Leveraged Tailwind CSS for efficient styling and responsiveness.
- Integrated React to enhance interactivity and improve user experience.

ASIDESTUDIOS.CA

2025 January - Present

- Designed and developed a barber website with an intuitive interface using Tailwind CSS for styling and AWS for hosting.
- Developed features for seamless appointment booking and real-time updates to enhance user convenience.
- Built backend functionality with REST APIs for efficient data management and integration.

AKWRAPS.CA

2024 June - 2024 September

- Designed and developed a web service for a car wrapping business using JavaScript, alongside Three.js for 3D visualizations.
- Utilized Thymeleaf for server-side rendering and Docker for streamlined deployment processes.
- Integrated responsive design and interactivity to enhance user engagement.

RISC-V Processor

2023 September- 2023 December

Operating Systems (CMPT 295), SFU

- Developed a RISC-V processor in C/C++/Assembly.
- Implemented RISC-V instructions with custom slt-type instructions.
- Produced and decoded output for a concise representation of executed instructions.

Multi-level Cache System

2023 September- 2023 December

Operating Systems (CMPT 295), SFU

- Designed and managed multi-level cache systems using C/C++ programming techniques.
- Implemented advanced caching policies, including LRU and LFU eviction algorithms.
- Optimized memory allocation with dynamic data structures to efficiently manage cache sets, lines, and blocks.

WORK EXPERIENCE:

Executive

2023, November - Present

Google Developers Student Club, Burnaby, BC

- Led tech initiatives and created solutions aligned with the club's vision.
- Organized workshops to build skills and foster a collaborative tech community.
- Coordinated projects to ensure innovative and impactful outcomes.

Vision Centre Associate

2021, June - Present

Walmart, New Westminster, BC

- Utilized digital tools to improve sales and streamline operations.
- Supported team efforts in providing tech-driven eye care solutions.
- Delivered exceptional customer service through tailored recommendations.

EDUCATION:

BSc. Degree Computer Science

2022 - 2026

Simon Fraser University, Burnaby, BC