Meharjeet Singh

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Technical Skills

- **Languages**   Java, Python, C, C++, SQL, JavaScript, HTML, CSS, R
- **Frameworks/Lib**   React, Node.js, Next.js, Tailwind, Radix UI, Prisma, Shadcn UI
- **Developer Tools**   Git, Figma, VS Code, Vercel, Heroku, Cmake

Soft Skills

- Ability to articulate ideas clearly, effectively, and an active listener.
- Enjoy sharing ideas, and working towards a common goal.
- Willingness to learn new skills, and ability to work under pressure.

Technical Projects

Multimedia Viewer | *C++*   *Oct - Oct 2023*
- Programmed an audio and image viewer for desktop which supports the 3 major operating systems.
- Utilized Cmake as the build tool which automated cross-platform compilation and reduced build times by half.

Aviation Database Design | *SQL*   *Mar - Apr 2023*
- Replicated Airlines, Flights, Passengers, and other storage tables used in the aviation industry by utilizing efficient SQL queries which were around 1.5 times faster than Prisma.
- Made multiple triggers, 3 stored procedures and 2 views for an intuitive API for the database.

Processor Pipeline Simulator | *C++*   *Mar - Apr 2023*
- Provided a low-cost way to calculate the performance metrics of a processor based on 2 factors, pipeline width and trace size by using custom data structures to track dependencies at constant time.
- Reported execution, idle times, and bottleneck processes of the processor with more than 99% accuracy.

Package Delivery Tracking App | *Java*   *Nov - Dec 2022*
- Built a Server and Desktop Client to successfully handle a 100% increase in the number of simultaneous package tracking requests, demonstrating the scalability and robustness of the application.
- Made the response time 10% faster by refactoring the object structures which avoided copying.

Adoptify | *React, Express, Postgres, S3*   *Jul - Aug 2022*
- Built and deployed a full-stack web application on Heroku that enabled its users to adopt or give away their pets.
- Used optimization techniques to implement infinite scroll and make the database requests 2 times faster.

Volunteer Experience

Math and Science Tutor | *India*   *Apr - Oct 2021*
- Taught 6 underprivileged students to clear the Entrance Exam for Indian Army, by taking classes and explaining complex ideas simply.
- Prepared lessons, assessments and revisions by managing time efficiently.

Education

Simon Fraser University | *Burnaby, BC*   *Jan 2020 – Present*
- *Bachelor of Science, Major in Computer Science*