

# Meharjeet Singh

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## Experience

### Full-Stack Developer - Kitchen Mall Corporation

Dec 2023 - Present

- Made an End-to-End inventory tracking system across 3 warehouses, with multiple vendors and customers.
- Integrated barcode generation and scanning to reduce tracking time by 90%.
- Developed an email reminder service, to make aware of low quantity stock by using Resend.
- Designed an admin dashboard with graphical insights across 4 different categories using NextJs and Supabase.

## Technical Skills

- **Languages** Java, Python, C, C++, SQL, JavaScript, HTML, CSS, bash,
- **Frameworks/Lib** React, Node.js, Next.js, Tailwind, Prisma, Shadcn UI, SDL3, Cmake, Clerk, Auth.js
- **Technologies** Google Cloud, Amazon Web Services, Continuous Integration, Automated Testing
- **General** Linux command line, UNIX, Front End, Distributed Systems, Infrastructure

## Soft Skills

- Ability to articulate ideas clearly, effectively, and listen actively to be an effective communicator.
- Enjoy sharing ideas, working towards a common goal, learning new skills, and the ability to work under pressure.

## Technical Projects

### AI Therapist - Happimind | Next Js, Tailwind, Clerk, Supabase, OpenAI

Feb 2024

- Received the 1st prize at a hackathon by SFU Surge for this project.
- Made a multilingual AI chatbot with mental health expertise by streaming responses from openAI in 1 day.

### Multimedia Viewer | C++

Oct 2023

- Programmed an audio and image viewer for desktop which supports the 3 major operating systems.
- Implemented image algorithms like auto color correction, dithering, and more by using SDL3 image.

### 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.

### Adoptify | React, Express, 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