

Vansh Sood

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EDUCATION

Dalhousie University

Halifax, NS

Bachelor of Computer Science

Expected Fall 2025

- Teaching Assistant - Data Structures and Algorithms, Intro to Web Development
- Academic Technology Support Specialist - Office of the Dean, Faculty of Health
- Developed Data Analysis Software for **25k+** medical student placements across Nova Scotia

EXPERIENCE

Software Developer Co-op

May 2023 – August 2023

Dalhousie University

Halifax, NS

- Engineered data visualization platform for **350+ patients** and **1.5k+ diseases** in the healthcare sector.
- Executed a strategic migration of legacy code from Java/JHipster to a more modern Node.js Docker environment.
- Achieved **24% performance** increase post-migration, streamlining operations and improving efficiency.

Full Stack Developer

October 2022 – Present

Emerging Wireless Technologies Research Lab

Halifax, NS

- Developed mobile application raising **\$45k** by utilizing *React Native, Node, Typescript, Docker, SQL, GitHub*.
- Collaborated in a team under Dr. Srin Sampalli to launch app on multiple platforms with **200+ users**.
- Engineered AWS cloud architecture for multi-region backend micro-services deployment saving **40%** server costs.

Undergraduate Student Ambassador

August 2022 – Present

Shiftkey Labs

Halifax, NS

- Spearheaded web platform for managing **750+ student** and **25+ company data** for freelance opportunities
- Collected and analysed data for organising **50+ technology** events aligned with Faculty of Computer Science.
- Mentored **450+ students** across Nova Scotia and driving increased diversity in STEM through Slack Community.

Founder and Chief Technology Officer

December 2020 – September 2022

Webcube Infotech

New Delhi, India

- Founded a software company, achieving **\$30k** in 13 months with **19%** quarterly growth.
- Completed **25+ applications** using AWS, Next.js, PostgreSQL to empower and digitize small businesses.
- Assisted startups in raising **\$100k+** through MVPs development leading team of **15+** developers.

AWARDS AND CERTIFICATIONS

AWS Certified Cloud Practitioner | *Amazon*

2023

Google Code-In Grand Prize Winner | *Global Top 50* | *Google*

2018

PROJECTS

AI App - Re:new | *React Native, Python, AWS DynamoDB, cohere NLP, Flask, Tensorflow*

2023

- Built an AI-generated task app with social media integration based on cohere NLP Machine Learning.
- Demoed at University of Toronto and earned special recognition amongst **150+ teams** for the most stable MVP.

3D - Q Learning Algorithm | *C#, Blender, Rhino*

2022

- Solved the Room Problem using Q Learning algorithm by training an agent with an adjacency matrix in *C#*.
- Implemented the algorithm in real-world 3-D maze solving by moving the agent across rooms.

Covid Support Web Platform | *Next.js, Firebase, Google Cloud Platform*

2020

- Constructed a scalable application architecture from scratch, handling **20k+ users**.
- Deployed digital platform (**52 volunteers**) that provided verified leads for O2 and meds during Covid.

TECHNICAL SKILLS

Languages: Java, JavaScript, Python, SQL, Git, TypeScript C#, C/C++, HTML/CSS

Frameworks: React, Node.js, Next.js, Docker, GSAP, Expo, Three.js, D3.js, Flask, Django, JUnit

Cloud and Database: Amazon Web Services, Postgres, MySQL, Google Cloud Platform, MongoDB, Firebase

Personality: Entrepreneur, Data Driven, Team Player, Change-maker, Problem Solver, Community Empowerment