# Gagan Raj Singh

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## **SKILLS**

Programming : TypeScript, C#, JavaScript, Python, SQL, C/C++

Web Development : ReactJS, .NET, NodeJS, Redux, REST APIs, Entity Framework, SQL Server
 Miscellaneous : Data Structures, Git, Azure DevOps (CI/CD), LINQ, Agile Methodology

#### **WORK EXPERIENCE**

BGC Engineering

Jan 2024 - Present

Software Development Intern

Vancouver, BC

- Enabled 1000+ civil engineers to monitor inspections of their sites, by developing Inspections dashboard with multiple widget components, global filtering and sorting features using ReactJS, TypeScript and C#.
- Reduced developers' workload by about 20 hours per sprint by developing REST APIs and designing DB Schema for an admin
  console which enabled admins to directly manage client features and layer configurations.
- Improved UX as seen by 80% reduction in time in accessing layer metadata by developing React Components, REST APIs, and DB schema to implement a metadata popup feature.
- Technologies ReactJS, TypeScript, .NET, C#, LINQ, Entity Framework, Redux, SQL, Git, Agile

Accountium May 2023 - Dec 2023

Software Development Co-op

Vancouver, BC (Remote)

- Boosted customer base by 25% by optimizing the frontend using ReactJS, JavaScript, enhancing the user experience and making it fully compatible across multiple browsers and mobile devices.
- Achieved 20% reduction in client project delays by developing a Project Management feature, incorporating Frontend, API development and DB modeling using ReactJS, C#, which simplified progress tracking and invoice generation.
- Developed a Work Scheduling feature, benefiting 50+ clients by enabling them to create employee schedules, monitor work
  hours, and validate locations, by developing Stored Procedures, REST APIs, and designing database.
- Technologies ReactJS, JavaScript, C#, .NET Core, MVC, REST APIs, SQL, Git, Agile

University of Alberta Jan 2023 - April 2023

Graduate Research Assistant

Edmonton, AB

- Responsible for leading a team of 3 members, aimed at helping an executive search firm find better clients in less time, by using Machine Learning techniques.
- Improved the process of selecting the top potential clients from leads, as seen by an increase in client count by 20%, by
  developing, training and utilizing regression models to predict the success rate for each lead.
- Technologies Python, Pandas, PyCaret, Scikit-Learn.

Deloitte Aug 2020 - Aug 2022

Software Developer

India

- Ramped up the user acquisition rate from 9% to 15% for all the supermarket chains under Sobeys Inc., by developing user
  onboarding and account management webpages using ReactJS, NodeJS and JavaScript.
- Enhanced the security of the websites, by building REST APIs to implement SSO and email-based MFA, with device change and location change triggers.
- Led the successful migration of 4.5 million records to a new database by developing the entire migration pipeline using Python.
- Technologies ReactJS, NodeJS, ExpressJS, JavaScript, Python, SQL, REST APIs, Git, Agile

#### **PROJECTS**

Talk-2-PDFs Demo | Link

- A web application that leverages LLM and GenAl to allow users to upload multiple PDFs and turn them into chatbots, enabling
  users to interact with their documents by chatting with them.
- Technologies React, TypeScript, LangChain, OpenAl, Python, Flask, Redux, Git.

NFT Marketplace Demo | Link

- Developed a web application, allowing users to generate AI images using textual prompts and mint them as NFT on blockchain. It
  enables users to generate, buy, sell and track the NFT ownership and its market value.
- Technologies ReactJS, NodeJS, EtherJS, Solidity, OpenAI DALL-E 2, IPFS, Git.

### **EDUCATION**

University of Alberta
 Master of Science in Computing Science

Sep 2022 – Dec 2023 Edmonton, AB

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July 2016 - May 2020

Panjab University

Bachelor of Engineering in Computer Science

India