Gagan Raj Singh

Github/GaganRajSingh | Linkedin/gagan-raj-singh | www.gaganrajsingh.com | grsingh@ualberta.ca

SKILLS

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

Web Development : React, .NET, NodeJS, Express, Redux, REST APIs, Entity Framework, SQL Server

Miscellaneous : Data Structures, Algorithms, OOPs, Git, Azure, Linux, Jira, Agile

WORK EXPERIENCE

BGC Engineering Jan 2024 - Present

Software Development Co-op

Vancouver, BC

- Enhanced site safety for 1000+ engineers by creating an Inspections monitoring dashboard with geo-spatial 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 map layer configurations.
- Achieved an 80% reduction in time spent accessing esri layer metadata by implementing a metadata popup feature utilizing React, REST APIs, and Redux, improving user experience.
- Technologies React, TypeScript, .NET, C#, Entity Framework, Azure DevOps, Webpack, Redux, SQL, Git, Agile

Accountium May 2023 - Dec 2023

Software Development Co-op

Vancouver, BC (Remote)

- Facilitated business growth by onboarding 6 international clients within 2 months by developing a Generic Tax System, involving development of new DB tables, Controllers and React Frontend, enabling seamless integration of global clients.
- 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.
- Optimized the frontend of Accountium web application using ReactJS, JavaScript, CSS enhancing the UX and making it fully compatible across multiple browsers and mobile devices.
- Technologies React, JavaScript, C#, .NET Core, MVC, REST APIs, SQL, Git, Agile

University of Alberta Jan 2023 - April 2023

Graduate Research Assistant

Edmonton, AB

- Led a 3-member team to refine the client acquisition process of an executive search firm, by developing models to predict lead success rate, leading to an increase in client count by 20%.
- Technologies Python, Pandas, PyCaret, Scikit-Learn.

Deloitte Aug 2020 - Aug 2022

Software Developer

Gurgaon, India

- Ramped up the user acquisition rate from 9% to 15% for all the supermarket chains under Sobeys Inc., by developing new user onboarding websites using ReactJS, NodeJS and ExpressJS, resulting in a significant increase in revenue.
- Enhanced website security by implementing Single Sign-On (SSO) and email-based Multi-Factor Authentication (MFA) using REST APIs, mitigating potential security risks.
- Led the successful migration of 4.5 million records to a new database by developing the entire migration pipeline using Python and Azure Function Apps, ensuring data integrity and minimal disruption to operations.
- Technologies React, Python, NodeJS, ExpressJS, JavaScript, Azure DevOps, SQL, REST APIs, Git, Agile

PROJECTS

Talk-2-PDFs Demo | Link

- A web application that transforms PDFs into interactive chatbots. Developed this project primarily to help students to efficiently comprehend research papers in a shorter span of time. Also versatile in handling any other PDF document.
- Technologies React, Python, TypeScript, LangChain, OpenAl, 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 React, NodeJS, EtherJS, Solidity, OpenAl DALL-E 2, IPFS, Git.

EDUCATION

University of Alberta Master of Science in Computing Science

Edmonton, AB

Sep 2022 - Present

Panjab University

July 2016 - May 2020

Bachelor of Engineering in Computer Science

India