GAGAN RAJ SINGH

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TECHNICAL SKILLS

Programming Languages: C, C++, C#, Python, JavaScript, SQL
Web Development: HTML, CSS, NodeJS, Express, ReactJS, MongoDB, MySQL, ASP.NET Core
Fundamentals: Data Structures, Algorithms, OOPs, Databases, Computer Networks
Miscellaneous: Git, Jira, Confluence, Linux, Azure, REST APIs

EXPERIENCE

Accountium   May 2023 – Present
Software Engineer Intern   *Edmonton, Alberta*

- **Boosted customer base by 25%** by optimizing the frontend of the Accountium web application, enhancing its responsiveness and making it fully compatible with mobile devices.
- **Delivered a 20% reduction** in client project delays through the development of a Project Management feature, encompassing DB modeling, REST APIs and frontend development. This feature streamlines project progress management and automates 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** - C#, HTML, CSS, JavaScript, ASP.NET Core MVC, REST APIs, Azure SQL DB, Git.

University of Alberta   Jan 2023 – April 2023
Graduate Research Assistant   *Edmonton, Alberta*

- 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.
- Reduced the leads generation time **by 70%**, through the development of an automated ETL pipeline, **fetching 1000+** relevant leads from Linkedin Sales Navigator and Indeed.
- 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 a linear regression model 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 by 15%** for all the supermarket chains under **Sobeys Inc.**, by developing user onboarding and account management webpages.
- Enhanced the security of the websites, by building REST APIs to implement email-based MFA, with device change and location change triggers.
- Led the successful migration of more than **4.5 million user records** to a new database by developing the entire migration pipeline.
- **Technologies** - ReactJS, NodeJS, ExpressJS, Python, SQL, REST APIs, Microsoft Azure Devops.

EDUCATION

University of Alberta   Sep 2022 – Present
Master of Science in Computing Science   *Edmonton, Alberta*

Panjab University   July 2016 – May 2020
Bachelor of Engineering in Computer Science   *India*

PROJECTS

NFT Marketplace   Link

- Developed a web application, allowing users to generate images using textual prompts and mint them as NFT. 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.

Climate Data Visualization   Link

- Developed and deployed a user-friendly web application for effective presentation of historic climate data, in the form of interactive plots and charts.
- **Technologies** - ReactJS, NodeJS, PlotlyJS, Mapbox, Python, Pandas, Git.