Rohan Kanti

✉ rohan.kanti@mail.mcgill.ca   📞 2897956169   in linkedin.com/in/rohankanti/   ○ github.com/rohank36

🎓 Education

McGill University, Bachelor's Degree, Computer Science Major, Finance Minor   09/2021 – 12/2025   Montreal, Canada
- **Courses:** Data Structures & Algorithms, Operating Systems, Software Design, Computer Architecture, Applied ML, AI, R for Quant Trading, Calculus, Linear Algebra
- **Languages:** Python, JavaScript/TypeScript, Java, C++/C, SQL, R
- **Clubs:** Software Developer @ Hack4Impact, Tutor @ McGill CS Undergraduate Society
- **Competitive Programming/ Hackathons:** ICPC NA Qualifier 2023, McHacks 23

💼 Professional Experience

Software Developer Intern, *Royal Bank of Canada (Amplify Program)*   05/2024 – 08/2024   Toronto, Canada
- Developed a search generative experience to help **9 million users** find relevant offers, resulting in a projected **$97 million in revenue** over the next 5 years.
- Enriched merchant data by **167%** to enable advanced search by implementing a custom web crawling algorithm leveraging **RAG**.
- Worked on full-stack development, covering Frontend design, Backend APIs, database operations, **MMR search**, and a **hybrid recommender system**.

Software Developer Intern, *CarInspect (Formerly Kiwiz)*   01/2024 – 04/2024   Montreal, Canada
- Completed **21 tickets** and **10 new features** that were pushed to live **production code** for both client and internal facing applications.
- Collaborated in the development of a new inspection form to be used in **500+ inspections** per month that reduces inspection time by **15%** increasing the company's profit per car inspected by **18%**.
- Reduced Google maps API query costs by **70%** by implementing a Redis cache system.

Data Science Intern, *Birch Hill Equity Partners Management Inc*   05/2022 – 08/2022   Toronto, Canada
- Collaborated on the development and roll-out of an app for a portfolio company which improved their delivery efficiency by **16%** through refined routing and delivery time tracking.

Infantry Lieutenant, *Singapore Army*   10/2019 – 08/2021   Singapore, Singapore
- **Singapore Military Awards:** 2021 NSF of the Year, OCS Sword of Merit & Silver Bayonet, SCS School Best, ATP Marksman.
- Earned the **2nd highest** combat unit rating by effectively commanding and leading **120+ soldiers** in an Infantry company as the **youngest** officer in the unit.
- Achieved successful execution of complex company missions by assisting the Officer In Command in planning and strategizing, ensuring mission objectives were met.
- **Awarded Fulltime National Servicemen (NSF) of the Year 2021** out of 16,000 NSFs by the Chief of the Singapore Army due to exemplary leadership and character.

📂 Select Projects

GPT From Scratch, Personal Project, Deep Learning, *Tech Used: Python, Pytorch* ⧉   06/2024 – 07/2024
- Implemented the Transformer Decoder ⧉ architecture from scratch and trained a 10m model on ~40k lines of Shakespeare.

EPL Match Outcome Predictor, Personal Project, ML, *Tech Used: Python, BeautifulSoup, Pandas, Sklearn*   06/2024 – 06/2024
- Trained a Random Forest model to predict 2023-2024 English Premier League match outcomes with a **66.2% accuracy**, outperforming the University of Innsbruck's 2022 model by 4.8%.
- Improved model accuracy by **11%** by adding new predictors and performing hyperparameter tuning via Grid Search Cross Validation.

KaizenFloBot, Personal Project, Back End, *Tech Used: TypeScript, Node, Express, Mongoose, MongoDB, OpenAI API*   04/2024 – 06/2024
- Helping BJJ athletes improve by enhancing their self-reflection and progress tracking by building an AI Companion app that leverages **GenAI**, resulting in personalized questions tailored to their BJJ goals, training journal entries, and overall journey.

KaizenFlo, Personal Project, Full Stack, *Tech Used: MERN, Tailwind, AWS S3, Postman, Jira, Git, Vercel, Heroku*   06/2023 – 01/2024
- Enhanced the learning experience of grappling athletes by building a one-stop shop platform that streamlined access to personalized coaching feedback.
- Engineered RESTful APIs, data model schemas, a recording and annotation suite for coaches, error handling, secure user auth protocols, and an intuitive UI, by writing modularized maintainable code, culminating in a scalable and robust application.

Rohan's Connections, Personal Project, Front End, *Tech Used: JavaScript, React, Tailwind CSS* ⧉   03/2024 – 03/2024
- A duplicate of the popular NYT Connections game with my own puzzles for friends to enjoy.