

Tommy Hane

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Experience

- **National Bank of Canada** May 2022 - Sep 2023
Data Science Intern Montreal, Canada
 - Developed automated analytics tools to enhance data accessibility for stakeholders.
 - Led onboarding and training initiatives, improving efficiency for new hires.
 - Collaborated with IT teams to implement scalable data solutions aligned with business objectives.
 - Improved UI/UX of internal analytics platforms, boosting user engagement.
 - Managed cross-functional projects to drive strategic, data-driven decision-making.
- **National Bank Private Banking 1859** June 2021 - May 2022
Senior Clerk (Contract Part-time) Montreal, Canada
 - Oversaw administrative processes, ensuring compliance with financial regulations.
 - Drafted professional communications for internal and external stakeholders.
 - Automated record-keeping workflows, reducing manual workload.
 - Coordinated meetings and scheduling, optimizing operational efficiency.

Education

- **Concordia University** Sep 2021 - Dec 2025 (Expected)
Bachelor of Computer Science - Joint Major in Data Science Montreal, Canada
 - Held leadership roles in the Software Engineering and Computer Science Society:
 - * Chair (May 2023 - Apr 2024)
 - * President (May 2022 - Apr 2023)
 - * Director of Communications (Sep 2021 - Apr 2022)

Projects

- **Database Application for Sports Club** Jan 2025 – Apr 2025
PostgreSQL, SQL, ER Modeling, HTML/CSS/JS Academic Project – Concordia University
 - Designed and developed a relational database system with a web-based GUI to manage club operations, members, and team formations.
 - Implemented complex SQL queries, triggers, and data constraints to enforce business rules and automate email notifications.
- **Personal Website** Apr 2025 – May 2025
Next.js, Three.js, Tailwind CSS Personal Project
 - Developed a responsive 3D portfolio website optimized for both web and mobile platforms.
 - Integrated interactive 3D visuals using Three.js, enhancing user engagement.

Skills

- **Programming & Software Development:** Python (NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch), Java, C++, JavaScript (TypeScript, Node.js), SQL (PostgreSQL, MySQL), React (Next.js, Tailwind CSS), React Native (Expo), REST APIs, Git/GitHub, CI/CD
- **Machine Learning:** Supervised & Unsupervised Learning, Deep Learning (CNNs, RNNs, Transformers), Feature Engineering, Model Evaluation
- **Data Engineering & Cloud Infrastructure:** ETL Pipelines, Apache Spark, Databricks, Snowflake, AWS (Lambda, S3, EC2, Redshift), Azure (Data Factory, Synapse, Blob Storage)
- **Data Analysis & Visualization:** Exploratory Data Analysis (EDA), Statistical Modeling, Matplotlib, Seaborn, Power BI
- **Professional Skills:** Cross-functional Collaboration, Technical Team Leadership, Agile Project Management