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

- **Sports Club Database** — *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.

- **Portfolio 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