

THIBAUT SENEGAS

Data Scientist

Personal Data

Nationality and Date of Birth: French & Canadian, 15 November 1990
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Languages: French (native), English (fluent)

Expertise

- Experienced in engaging with clients to identify their needs, providing strategic guidance in defining and implementing digital transformation strategies through data-driven solutions.
- Adept at bridging the gap between highly technical teams and Leadership/C-suite, ensuring clear communication and alignment of technical capabilities with strategic business objectives.
- Proven expertise in leading multidisciplinary data teams, including data scientists, data engineers, and software developers, fostering collaboration and driving project success.
- Proficient in Quantitative Methods and Data Science: data collection, analysis, and processing. Expertise in end-to-end workflows from Data Ingestion to Model Deployment, encompassing Data Engineering and Model Development.
- Principal Technologies: R, Python, R/Shiny, Generative AI, Docker, Git, SQL, API.

Work Experience

Current January 2024	Lead Data Scientist – Chief Product Owner <i>Quantum Simulations (a nüance-R company), Montréal QC</i> As the Chief Product Owner and Lead Data Scientist, I spearhead a team of product owners and data scientists/engineers dedicated to pioneering digital twin technologies. Actively engage with clients to ensure the successful implementation of cutting-edge analytics solutions, guiding them in defining and implementing their digital transformation strategies. <ul style="list-style-type: none">➤ Leadership: Leading a dynamic team to develop state-of-the-art analytics products.➤ Relation: Collaborating closely with clients to understand their needs, and ensuring these solutions align with their strategic goals.➤ Deployment: Delivering AI models, including multi-agent and multi-model, solutions that integrate seamlessly with existing systems.➤ Impact: Driving significant improvements in organizational efficiency and decision-making capabilities Principal Technologies: R, Python, R/Shiny, Generative AI (Agents, RAG, etc.), Docker, Git
December 2023 June 2020	Product Owner – Data Scientist <i>Quantum Simulations (a nüance-R company), Montréal QC</i> Lead the development of the digital twins, from conception to commercialization. Deeply involved in development of enterprise-grade analytical solutions from back-end to front-end. Desing of the complete solution architecture, from the management of databases fed in real time and continuously, to the deployment of AI models updated in real time with selection of the best models (MLOps), to the integration of the solution into an intuitive web application for end-customers developed using CI/CD practices. <ul style="list-style-type: none">➤ Built Digital Twins for multinational manufacturing companies, professional sports teams, and economic region.➤ Applying techniques from various disciplines (mainly economics and finance) to others.➤ Lead and mentor intern/junior data analysts/scientists.➤ Effectively communicate and explain complex technical concepts to end-users (from technical operators to C-Suite).➤ Supported customer adoption of the solution. Principal Technologies: R, Python, R/Shiny, Docker, Shiny Proxy, SQL Techniques: TS Forecasting, Machine & Deep Learning, NLP, Web-scraping, Generative AI, CI/CD practices

<p>May 2020 February 2019</p>	<p>V.P. R&D and Innovation <i>SKEMA Global Lab in Augmented Intelligence (a nuance-R company), Montréal QC</i></p> <p>Responsible of the transfer and valorisation of the academic research made into the SKEMA Global Lab. Coordinate the activities of the lab through each campus of SKEMA Business School. Responsible of the Analytics Factory in Montréal.</p> <hr/> <ul style="list-style-type: none"> ➤ Creation of online courses on data science with R, from data import to modeling, data wrangling and GIS. ➤ Data Science bootcamp for bachelor's/master's students. <p>Principal Technologies: R, Python, SQL, Git</p>
<p>January 2019 August 2017</p>	<p>Data Scientist Consultant into Advanced-Analytics practice <i>IBM Services, Montréal QC</i></p> <p>Data Science consulting for Retail, Financial and Insurance industries from contracting with customers to final deliverables.</p> <ul style="list-style-type: none"> ➤ Built model for estimate Implied Demand. ➤ Built Demand Forecast models. ➤ Built NLP classification models. <p>Principal Technologies: R, Python, SQL, Git Techniques: Time series, Machine Learning, Deep Learning, NLP</p> <p>Recognition: Service Excellence Award</p>
<p>July 2017 January 2015</p>	<p>Data Scientist as Research Professional on the Social Data Science Lab <i>Centre Interuniversitaire de Recherche en Analyse des Organisations (CIRANO), Montréal, QC</i></p> <p>Development of Mondo, a unique Data Science Platform for International Business</p> <ul style="list-style-type: none"> ➤ Creation and implementation of a unique database of commercial state between Canadian and EU sectoral levels manufacturers. ➤ 400 accounts, Twitter bot, automatic reports, data collection (2M+ data). <p>Development of Open Science. A new "OS" for Data Science</p> <ul style="list-style-type: none"> ➤ Creation of a platform dedicated to the International Business field of research with Data Science as the core methodology. <p>Preparing daily, monthly, and annual reports.</p> <p>Principal Technologies: R, Git</p>
<p>December 2013 Mars 2013</p>	<p>Engineer Consultant <i>Planisware, Paris</i></p> <p>Technical and functional consultant for implementation of Planisware (OPX2): European leader in project management tools and business. Using JavaScript, getting daily relationship with renowned customers like EDF or PSA.</p>

Education

- 2020** **Avant Garde @ CIRANO cohort**
Annual theme: *What's at Stake? Societal Impact of Artificial Intelligence // COVID-19*
<https://avantgarde.cirano.qc.ca>
- 2016** **M. Sc. in Business Administration, HEC, Montreal**
Major in International Business with minor in economics
Thesis: "Free Trade Agreement Between Canada and the European Union: An Analysis of Industrial Sectors" | Advisor: Prof. Thierry Warin
- 2013** **Engineering degree, INP/ENSIACET, Toulouse (France)**
Major in Materials Sciences and minor in Industrial Systems
- 2010** **DUT in Physical Measurements, Université Paul Sabatier III, Toulouse (France)**

Interests

- Quant. Finance & Sport Analytics
- 2016 Coach of the Quebec Soccer Federation for U9 and U10 at competitive level for the Boucaniers club
- 2013-2018 Practice of soccer in competitive and recreative league.
- 2006-2013 Practice of Rugby, French vice-champion, regional champion of Midi-Pyrénées, French championship of Rugby sevens.