

THIBAUT SENEGAS

Data Scientist

Personal Data

Nationality and Date of Birth: Canadian & French, 15 November 1990
Address: 950 Bld. Saint-Joseph Est, Montréal H2J 1K8
Phone and Email: +1 (438) 521-0100 – senegas.th@gmail.com
Languages: French (native), English (fluent)

Expertise

- Specializing in the development and presentation of enterprise-grade R & R/Shiny analytical solutions with an approach to bring an intuitive understanding of complex problems and solutions.
- Skilled in Quantitative Methods and Data Sciences: data collecting, analysis and processing. In-depth knowledge of data mining step from Data Ingesting to Model Deployment through Data Engineering and Model Development.
- Skilled with Time Series Analysis, Clustering Algorithm, unsupervised and supervised Machine Learning Techniques, Generative AI.
- Proven team spirit, determined and committed to excellence. Focus on getting results and bring value to customers.
- Computer knowledge: R, R/Shiny, Git, SQL, API, Docker, Shiny Proxy, Generative AI (multi-agents / multi-modals).

Work Experience

Current January 2024	Lead Data Scientist – Chief Product Owner <i>Quantum Simulations (a nuance-R company), Montréal QC</i> <p>I spearhead a team of product owners and data scientists dedicated to pioneering digital twin technologies. We are shaping the future of ERPs with cutting-edge data and AI models.</p> <p>Our innovative, real-time data-driven solutions empower organizations to transition into Industry 5.0, becoming truly data-centric. We revolutionize strategy and decision-making processes across various domains, from sales prospecting to production monitoring and raw materials supply management.</p> <ul style="list-style-type: none">➤ Leadership: Leading a dynamic team to develop state-of-the-art digital twin / data products➤ Innovation: Implementing advanced AI solution, including Machine Learning, Time series Forecasting, NLP and Generative AI.➤ Integration: Delivering multi-agent and multi-modal Gen. AI solutions.➤ Impact: Driving significant improvements in organizational efficiency and decision-making capabilities. <p>Principal Technologies: R, R/Shiny, Docker, Shiny Proxy, SQL Techniques: TS Forecasting, Machine & Deep Learning, NLP, Web-scraping, Generative AI, CI/CD practices</p>
December 2023 June 2020	Product Owner – Data Scientist <i>Quantum Simulations (a nuance-R company), Montréal QC</i> <p>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.</p> <p>Creation 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.</p> <ul style="list-style-type: none">➤ Built Digital Twins for multinational manufacturing company, 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. <p>Principal Technologies: R, R/Shiny, Docker, Shiny Proxy, SQL Techniques: TS Forecasting, Machine & Deep Learning, NLP, Web-scraping, Generative AI, CI/CD practices</p>

<p>May 2020 February 2019</p>	<p>V.P. R&D and Innovation <i>SKEMA Global Lab in Augmented Intelligence (a nüance-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> <ul style="list-style-type: none"> ➤ Creation of online courses on data science with R, from data import to modeling, data wrangling and GIS. ➤ Teaching Data Science bootcamp for bachelor's/master's students. <p>Principal Technologies: R, SQL</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 customer 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, SQL Techniques: Time series, Machine Learning, Deep Learning, NLP</p> <p>Recognition: Service Excellency 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>Part of the Social Data Science Lab using the nüance-R Platform 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>December 2013 August 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>
<p>August 2013 Mars 2013</p>	<p>Trainee Engineer Consultant <i>Planisware, Paris</i></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 (graduated A-): "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

- 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.