

Marc Cheng

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Experienced in building data and decision systems across enterprise platforms, with hands-on ML integration and production delivery

PROFESSIONAL EXPERIENCE

Rexel Canada | Product Data Specialist

June 2023 – May 2025 | Mississauga, Head Office

- Led the end-to-end implementation of a new Product Information Management (PIM) system, defining data models and core workflows in Informatica Product 360 to support enterprise-wide product operations.
- Acted as the primary data interface between SAP Hybris, ERP (IBM AS400), and external industry data sources, ensuring consistency across 200,000+ SKUs.
- Designed and executed UAT frameworks and validation rules, coordinating cross-functional testing with offshore engineering teams (India, France) to ensure production readiness.
- Built automated data quality control pipelines, translating business requirements into daily validation rules that significantly reduced downstream data errors across divisions.
- Developed dataflow orchestration and control scripts using AWS CLI and Bash, enabling reliable batch processing and monitoring.
- Contributed to the internal LLM initiative RexelGPT, focusing on system performance optimization and real-world deployment constraints during beta testing.

Deloitte | Data Analyst (Co-op)

May 2021 – April 2022 | Toronto, Head Office

- Performed independent validation of enterprise AML models for a Tier-1 Canadian bank, assessing model assumptions, feature selection, and statistical robustness.
- Evaluated supervised and unsupervised risk models (KNN, K-Means) using large-scale transactional datasets (1M–20M records), ensuring regulatory compliance and data integrity.
- Conducted model logic and data pipeline verification using SQL, Python, and R to identify inconsistencies between theoretical design and production behavior.
- Supported valuation and validation of derivative pricing models, translating financial contract structures into quantitative assumptions using Bloomberg Terminal.

FREELANCE EXPERIENCE

Stoic AI | Quantitative Research Contributor

February 2025 – October 2025 | New York, Remote

- Contributed to research and prototyping of quantitative trading models in PyTorch, including state-space architectures (MAMBA) for price movement forecasting.
- Performed feature selection and model diagnostics using statistical methods (e.g., ANOVA).
- Set up cloud-based training (RunPod) and experimentation environments utilizing H100 GPUs to accelerate model iteration.

DoubleTrends | Front-End Developer

November 2024 | Toronto, Remote

- Designed and developed doubletrends.com from scratch using custom HTML, CSS, and JavaScript, delivering a fully responsive interface optimized for desktop and mobile users.
- Implemented core technical analysis features, including TD Sequential, Williams %R, and VWAP, enabling real-time market signal visualization for retail traders.
- Integrated secure payment processing to support gated features and user transactions.

SELECTED PROJECTS

demonstrating system-level modeling and infrastructure design

Large Language Model (GPT-2)

- Implemented a GPT-2-style transformer with 768-dim embeddings and 12-head self-attention, applying weight masking and regularization to mitigate overfitting.

Deep Learning (ResNet)

- Implemented 34-layer and 101-layer residual networks for CIFAR-10 and CIFAR-100 classification tasks. Accelerated training using CUDA on an RTX 3060 (12GB).

Decision Infrastructure Engineer
Data Systems | ML Integration

EDUCATION

■ University of Toronto

Honours Bachelor of Science
Mathematics | GPA 3.6/4.0

SKILLS

■ Machine Learning

pytorch, tensorflow,
keras, scikit-learn

■ Data Science

pandas, numpy, scipy,
matplotlib, seaborn

■ Programming / Scripting

Python, R, SAS, Jupyter
Notebook, Node.js,
HTML, CSS, JavaScript,
Git, Bash, PowerShell

■ Databases

Oracle, MySQL, IBM DB2
(AS400), SQL Server

■ Cloud / Data Platforms

Amazon AWS, MS Azure,
SAP Hybris, Google Colab,
BigQuery, Informatica P360,

■ BI / Visualization

Tableau, Power BI

■ Languages

English, French, Mandarin

AWARDS

■ University of Toronto

2023 | High Distinction

■ University of Toronto

2023, 2022, 2021 | Dean's List

■ L'Université Laval

Concours Opti-math
2015 | 5th Place, Provincial
2014 | 7th Place, Provincial

■ University of Waterloo

Gauss Mathematics Contests
2013 | Distinction

LINKS

chengmarc.com

github.com/chengmarc

linkedin.com/in/marc-cheng