

# Rémy Hidra

Software Engineer

Montréal, QC (Willing to Relocate) ♦ (+1) 514-568-8001 ♦ [remy.hidra@gmail.com](mailto:remy.hidra@gmail.com) ♦ [remyhidra.dev](http://remyhidra.dev)

---

## WORK EXPERIENCE

**Morgan Stanley**, Montréal, QC

**Jan 2022 — Present**

*Software Engineer*

- Built systems for MBS Agency desk **trade flow & risk analytics** with L1 to L3 direct support
- Built a KDB/Q marking app, **reducing trading systems load by 80%** at end of day
- Built a Java mortgage allocations web app, handling **+30bn\$ of transactions/months**
  - Handles **10k/min** WebSocket real-time frontend updates
  - Support distributed in-memory cache system for fast querying on **1M trades**
- Built a **risk hedge tool**, using quant models, to provide duration predictions
- Handled **critical production issues**, impacting traders at market hours, ensuring 99% uptime
- Introduced **integration/unit testing** practices, enhancing software reliability
  - Wrote and integrated **+300 KDB/Q unit tests** in a CI/CD previously untested pipeline
- Modernized our infrastructure with Splunk, Grafana & Prometheus for **observability & alerting**

**Nestaur**, Lyon, France

**Jan — Oct 2021**

*Freelance Frontend Developer*

- Revamped the frontend of a **KPI monitoring tool** following issues with a previous dev team
- Developed an efficient React app capable of processing **large amounts of data**
- Redesigned the UI to be **responsive & internationalized**, with optimal UX across devices
- Played a key role with the founders in defining & refining application requirements

**Clapback**, Shanghai, China

**Jan 2020 — Oct 2021**

*CTO, Fullstack Developer*

- Led development of a **TikTok-style** new media app, with video uploads & social interactions
- Designed a scalable microservices infra, including **FFmpeg-based video encoding**
- Handled real-time video processing, distributed computing under resource constraints
- Introduced the app to **potential investors**, showcasing market potential

## EDUCATION

**Shanghai Jiao Tong University**, China

**Sept 2021**

*Master of Eng. in Electronics and Communication Engineering*

- Master thesis: Autonomous UAV navigation system in a dynamic unknown simulation
- Satellite data processing, autonomous robot navigation & AI computer vision

**INSA Lyon**, France

**Sept 2021**

*Master of Telecommunications Engineering*

- Specialized in networking, distributed systems, and signal processing
- Option in Theater Studies, Techniques of Light & Sound

## SKILLS & INTERESTS

- **Skills:** Java Spring, kdb/q, Hazelcast, Python, C, SQL, JS, Node, React, Perl, Linux, Docker, Grafana, Prometheus, Git, Google Cloud
- **Languages:** French (native), English (fluent), German (basic), Chinese (beginner)
- **Interests:** Music making, Film production & editing, Travel