

Jesse Sanford

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Software Developer, Quantitative Systems

Software developer with 100+ clients since 2022, including investment managers and trading-tool vendors, looking for a permanent developer role in Edmonton, or remote on Mountain Time, with a longer product horizon than contract work allows. Developer on the Trading IQ indicator suite (2026) and for ChartPrime's main, open-source and influencer products (2023 to 2024), with the work in public (the std_time library and a multi-year open-source trace on TradingView). Signal processing runs through the work, from mixing broadcast audio at Peace FM to spectral estimation on price series.

EXPERIENCE

Software Developer, Peaceful.Trade (self-employed), Edmonton, AB

Mar 2022 to Present

Quantitative trading software, indicators and automation for 100+ clients, including investment managers and trading-tool vendors.

- Developer on the Trading IQ production indicator and strategy suite in Pine Script (PineScript) on TradingView, on a three-month contract in 2026.
- Developer for ChartPrime on TradingView, May 2023 to Feb 2024: built their main product and their open-source and influencer products; eight main products, 25+ indicators in all.
- Shipped client tooling in Python: a GUI editor in which clients set presets on their own Pine Script strategies and export the finished script, and TradingView-to-broker automation.
- Run the studio's Linux infrastructure (self-hosted mail on Docker, nginx reverse proxy, automated TLS) and troubleshoot certificate (ACME) and reverse-proxy problems as they arise.

Lumber Sales and Warehouse, Chetwynd Home Hardware Building Centre, Chetwynd, BC

Jun 2021 to Nov 2022

- Sold lumber and building materials, and pulled customer orders from the warehouse and lumber yard.

Delivery Expert, Domino's Pizza, Chetwynd, BC

Nov 2020 to Jun 2021

- Delivered orders to customers, handled cash and ran morning prep on a third stint.

Producer and Traffic Manager, Peace FM / ChetTV, Chetwynd, BC

Nov 2019 to Feb 2021

Salaried broadcast production role at a community radio and television station.

- Produced radio advertisements from script and voice direction through recording, mixing and delivery.
- Managed advertising traffic: scheduled spots, built and merged daily logs across multiple stations, and confirmed every spot aired on time.
- Produced and edited multiple radio shows, and recorded musicians and live events.
- Recruited on-air talent and coordinated the station's volunteer roster.

Delivery Expert and Shift Lead, Domino's Pizza, Chetwynd, BC

Mar 2019 to Nov 2019

- Returned after the survey season as shift lead: supervised team members, ran the workflow and resolved customer issues during peak hours.

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Field Layout Technician, North by NorthWest, Chetwynd, BC

Nov 2018 to Feb 2019

- Performed GPS-based survey layout in unmapped, remote terrain across northeast BC through a winter season: snowshoe access, full shifts in extreme cold.

Delivery Expert, Domino's Pizza, Chetwynd, BC

Oct 2017 to Dec 2018

- Delivered orders, handled cash, and ran dough proofing and morning prep, cleaning, the store's social media and vehicle detailing.

Lube Technician and Sales Associate, Great Canadian Oil Change, Chetwynd, BC

Aug 2013 to Jul 2015

- Performed fluid services, oil changes, inspections and heavy-duty services in a quick-lube shop.
- Trained new technicians and explained inspection findings and recommendations to customers.

PROJECTS

- **std_time**: Open-source Pine Script date, time, timezone and market-calendar library
- **Particle-filter range estimator**: Sequential Monte Carlo at 4,000+ particles inside the per-bar execution model (Bayesian filtering after Särkkä), applied as a session range estimator
- **Spectral suppressor oscillator**: Signal processing on price series: constant-Q resonator banks, ESPRIT-style frequency refinement and a CUSUM change detector, with no hand-tuned parameters
- **Trender ensemble forecast**: Ratchet-aware ensemble forecast for the IQ Trender indicator (Trading IQ) from QMC-sampled synthetic observations, built under a written implementation plan
- **omarchy-tts** (2026): Open-source on-demand text-to-speech for the Omarchy Linux desktop: highlight anything, press a key, hear it; pluggable local and cloud voices (github.com/hikari112/omarchy-tts)
- **Divergence engine**: All 16 swing-type combinations with body-intersection filtering, published on TradingView

160+ open-source TradingView scripts as The_Peaceful_Lizard, a multi-year public trace.

Public under The_Peaceful_Lizard (tradingview.com/u/The_Peaceful_Lizard) and hikari112 (github.com/hikari112); the GitHub profile names Jesse Sanford.

SKILLS

Systems: Python, Linux, nginx, Docker, Git

Methods: signal processing, forecasting, Bayesian filtering, trading automation

EDUCATION

High school diploma, Chetwynd Secondary School, Chetwynd, BC