# Yumo Xu

Python Developer · Data Analyst · Automation Engineer

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## SUMMARY

Self-taught software developer with 5,700+ lines of production Python across three shipped projects — a quantitative trading engine, a housing market data analysis tool, and an automated job scraper. Background in travel operations brings strong skills in logistics, problem-solving, and client communication. Looking for opportunities in software development, data analysis, or automation where I can ship real systems and grow fast.

## TECHNICAL SKILLS

| | |
|---|---|
| Languages | Python, JavaScript, SQL, HTML/CSS, Bash |
| Data & Analysis | Pandas, NumPy, SQLite, statistical analysis, data visualization, backtesting |
| Quant / Finance | Kelly criterion, Sharpe ratio, drawdown analysis, risk management, position sizing |
| Tools | Git, GitHub, REST APIs, async I/O, pytest, mypy, CI/CD, Linux/CLI, VS Code |
| Architecture | Modular design, type-safe Python (mypy --strict), async/await patterns, CLI tooling |

## PROJECTS

### Polymarket Autopilot — Quantitative Paper Trading Engine                                2026
*Python · SQLite · Async I/O · REST APIs · pytest*  |  github.com/yumorepos/polymarket-autopilot

- Built a 3,600-line algorithmic trading system from scratch that scans live prediction markets, evaluates opportunities across 10 quantitative strategies, and simulates trades against a virtual portfolio
- Engineered 10 pluggable trading strategies (trend-following, mean reversion, momentum, market making, volatility, contrarian, sentiment, liquidity, value, bonding curve) with configurable risk parameters
- Developed a full backtesting engine that replays strategies against historical market snapshots with Sharpe ratio, max drawdown, and win-rate analysis
- Implemented automated daily P&L reporting with per-strategy breakdowns, portfolio metrics, and Telegram delivery
- Achieved 45 passing tests covering API parsing, database operations, strategy signals, and portfolio tracking using pytest with strict type checking (mypy --strict)
- Designed async market data pipeline with rate limiting, retry logic, and pagination against the Polymarket CLOB API

### Montreal Housing Market Analysis                                                        2026
*Python · pandas · seaborn · matplotlib*  |  github.com/yumorepos/montreal-housing-analysis

- Built a data pipeline to analyze Montreal's rental and sales market across 10 boroughs with 2,000+ data points spanning 2019–2025
- Computed affordability metrics, year-over-year trends, and statistical summaries using pandas and NumPy
- Generated 5 publication-quality visualizations with seaborn and matplotlib

### Job Hunter — Automated Job Scraper                                                      2026
*Python · httpx · SQLite · Click · Rich*  |  github.com/yumorepos/job-hunter

- Built a 538-line async CLI tool that scrapes 4 job boards concurrently, filters by keywords, and deduplicates listings with SQLite
- Generates formatted markdown digests of new listings for daily review

## EXPERIENCE

### Travel Consultant
Toronto, Canada

*Travel Industry — Multiple years of professional experience*

- Managed complex multi-destination itineraries for clients, coordinating logistics across airlines, hotels, and ground transport with tight deadlines and changing requirements
- Handled high-volume client communications, resolving issues under pressure while maintaining satisfaction — skills directly transferable to stakeholder management in tech
- Identified process bottlenecks and developed personal systems to streamline repetitive booking workflows, sparking interest in automation and software development
- Built strong analytical skills through fare comparison, route optimization, and cost analysis across booking platforms

## EDUCATION & LEARNING

### Self-Directed Technical Education
Ongoing

- Intensive self-study in Python, data analysis, quantitative finance, and software engineering
- Project-based learning approach: each concept learned by building real, deployed systems
- Active on GitHub with public repositories demonstrating production-quality code