DRONE BASSAN

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McGill Computer Science and Economics student who ships mobile apps and backend systems. Launched a Kotlin Multiplatform trading app on Google Play and built its real time data pipelines and financial workflows.

EDUCATION

McGill University *Expected May 2029*

B.A. & Sc., Double Major in Computer Science and Economics | U2 | Montreal, QC

Coursework in Data Structures and Algorithms (COMP 250), Computer Systems (COMP 273), and Software Systems (COMP 206)

EXPERIENCE

Software Engineering Intern | Talis Trade *May 2026 - Aug 2026*

Algorithmic trading application | Toronto, ON | 371 commits

- Built and launched the Android app on Google Play with full feature parity to iOS across 37 screens, using Jetpack Compose and a shared Kotlin Multiplatform module for strategy models, order types, and market data parsing.
- Built the WebSocket market data pipeline across six Hyperliquid channels with reconnect and resubscribe logic, and used coroutines and StateFlow to deliver live prices, order book updates, candles, and fills to the UI.
- Integrated authentication, strategy configuration, order submission, and portfolio state through Ktor, and deployed the strategy, execution, and AI chat services on AWS.
- Implemented Privy wallet integration and EIP 712 order signing, fixed a trading risk defect before release, kept sensitive card data out of on device caches, and shipped the 65 locale Play release with R8 shrinking and 16 KB page size compliance.

Founder and Engineer | Equipt *Jun 2026 - Present*

Construction equipment rental marketplace, live on Vercel | TypeScript, Next.js, Prisma, PostgreSQL

- Founded Equipt and built the whole product myself. Contractors post what machine they need and for how long, suppliers send offers, and the two sides message and close inside the app. Next.js and Prisma on Postgres, 15 pages over 13 models, Photon address autocomplete, and capacity matching that blocks a supplier from offering a machine too small for the job.

Quantitative Analyst | Martlet Fund Management *Sept 2026 - Present*

Student investment club, McGill University | Montreal, QC

- Researching a delta neutral funding strategy that buys BTC spot and shorts the same amount through a Hyperliquid perpetual, so price moves cancel and the position is left collecting the hourly funding payment. Built the data pipeline for it, pulling 3.5 years of hourly Hyperliquid and 8 hour Binance funding from public APIs and aligning the two settlement schedules.
- Measured how persistent funding is with an AR(1) fit (phi of 0.87), then used Hyperliquid's basis point funding zones and fees to work out the hold time needed to break even. An always hedged position earned around 14 percent a year in development and 5.5 percent in validation at 3x after costs. Now mapping the strategy onto the fund's Python backtesting engine.

PROJECTS

RFQ Venue Coordinator *2026*

Python, FastAPI, PyNaCl (ed25519), asyncio

- Wrote the coordinator server for a request for quote trading venue. It holds custody balances, runs timed quote auctions, verifies ed25519 signatures and nonces, and settles atomically. Stress tested against four adversarial maker bots, 79 tests.

Systematic Perpetuals Trading Bot *Dec 2025 - Jan 2026*

Python, Hummingbot, pandas, Hyperliquid API

- Built a Python trading system with liquidity based asset selection, EMA momentum signals, and funding and volatility filters.
- Added position sizing, stop loss and take profit, exit logic, and a daily loss kill switch, updated state on confirmed fills, logged trades to CSV and Markdown, and validated it through paper trading.

Intelligent PDF Parsing System *2025*

Python, pdfplumber, Tesseract OCR, Gemini 2.5 Flash

- Built a three stage text extraction pipeline that falls back from pdfplumber to Tesseract OCR to Gemini, so digital, scanned, and low quality PDFs all parse. Made Instagram reels about it that reached 70k views and led to sales to real users.

TECHNICAL SKILLS

Languages: Python, Kotlin, Java, C, TypeScript, SQL (basic)

Mobile & backend: Kotlin Multiplatform, Jetpack Compose, Coroutines, StateFlow, Ktor, WebSockets, AWS, Next.js, Prisma

Tools & integrations: Git/GitHub, Gradle, Google Play Console, R8, Privy, EIP 712, Vercel, LLM APIs, Tesseract OCR