

Aleksandrs Drozdovs

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PROFESSIONAL SUMMARY

Computer Science & Software Engineering graduate (Maynooth University, September 2026, 2:1 Honours) working across quant research and software engineering. Built a six-phase, pre-registered research program (176-test CI suite) that honestly disproved a \$28,400 backtest edge across ~10 years and three futures markets, and earned ~\$15,000 in live trading profit at DLT Capital. Ships full-stack products (TypeScript/Next.js, Python/FastAPI) and AI apps with LLM integration and agentic automation.

CORE COMPETENCIES

- Full-Stack Development
- Quantitative Research
- Test-Driven Development
- LLM/AI Integration

WORK EXPERIENCE

DLT Capital Feb 2025 - Jul 2025

Quantitative Researcher & Software Engineer (Part-Time)

Maynooth, Ireland

- Built and tested systematic crypto/futures trading strategies and backtesting software generating ~\$15,000 in live profit, using statistical filters and strict risk rules.

Circle K Jul 2023 - Apr 2025

Sales Assistant (Part-Time)

Dundrum, Dublin

PROJECTS

Dublin Bikes Forecast - Live Self-Scoring ML Service

Live self-scoring forecasting service for ~115 Dublin Bikes stations: every forecast is git-committed before its target time, then scored publicly against pre-registered baselines under a 28-day verdict gate. All 8 offline Brier-skill CIs positive on 671k rows; runs 24/7 on Oracle Cloud.

Python, scikit-learn, pandas, GitHub Actions, Oracle Cloud

Quantitative Strategy Research Program

Six-phase, pre-registered research program (176-test CI) with a no-lookahead backtest engine and walk-forward validation that rigorously proved a promising \$28,400 backtest edge was not real across ~10 years and three futures markets (1,402 out-of-sample trades).

Python, pandas, NumPy, pytest, GitHub Actions

Trading Analytics Dashboard

Full-stack trading journal (230+ commits): TS/Next.js front end with auth, Python/FastAPI back end, win-rate/equity/calendar analytics; typed schemas, tests, live on Vercel.

TypeScript, Next.js, FastAPI, Python, Vercel

Jarvis - Voice-Driven AI Assistant

Personal AI butler, solo zero-to-production, now open source: an Electron HUD with 100% local speech-to-text (whisper.cpp) over a headless Claude-agent pipeline delivering a daily 08:30 Telegram briefing with two-way remote.

Electron, whisper.cpp, PowerShell, Claude agent, Telegram Bot API

EDUCATION

B.Sc. (Hons) Computer Science and Software Engineering [Maynooth University](#) Sept 2022 - Sept 2026

2:1 (Upper Second-Class Honours). Modules: Machine Learning & Neural Networks, AI & Language Processing, Algorithms & Data Structures, Databases.

CERTIFICATIONS

Claude Code 101	Anthropic Academy	2026
Claude Platform 101	Anthropic Academy	2026

SKILLS

Languages: Python, TypeScript, JavaScript, Java, C++, SQL, PineScript, HTML, CSS

Frameworks: React, Next.js, Node.js, Express, FastAPI, pandas, NumPy, pytest, Vitest, Tailwind CSS

AI/ML: LLM integration (Anthropic, Groq), prompt engineering, AI agents & tool-use (MCP, Claude Code), applied ML

Tools: Git, GitHub, GitHub Actions, Supabase, MongoDB, Vercel, Jupyter, Postman, TradingView

Interests: Judo black belt (16 yrs, multiple Irish national medals); funded algorithmic-trading account with verified payouts