

Dive into Drapt's history, from the beginning to where it currently stands. Quickly navigate to the section which interests you:

- ## Drapt

Draht is a modular portfolio analytics platform for portfolio risk and performance analysis - built for clarity, speed, and most importantly to educate.

Empowering Portfolio Managers and Analysts alike, it demystifies quantitative portfolio analysis in an intuitive way, making it accessible for all levels of technical proficiency, from students who have never heard of Python to seasoned quants.

Powered by high-performance servers and optimised computation pipelines, Drapt makes it easier than ever to understand a portfolio's current position amidst the inherent chaos of financial markets.

November, 2024

The inspiration for starting the project was my desire to incorporate quantitative risk analytics into the NEFS Investment Fund, as around 1 month into being an analyst I realised that The Fund relied on qualitative risk analysis.

Until the revamp, Drapt was being developed in a very inefficient manner, with the following tech stack:

- Python (backend)
 - Flask - used for backend routing, deployed using a test server. Unconventional.
 - NumPy, Pandas, yfinance - quite typical for processing data.
 - Sqlite3 - hosted locally, not very modular as I had to create custom database managers in Python.
- HTML/CSS/JS (frontend)
 - HTML and CSS - manually written, literally from the ground up. No Tailwind CSS or DaisyUI like is being used today.
 - JS - base JS, including only one package: Chart.js

End of November, 2024

The first version of DRAP-T was not the prettiest, or the most functional...



The first prototype did not allow for portfolio creation, and it only had three features:

- A very *meaningless* returns histogram.
- A cumulative portfolio returns plot, which was done incorrectly, using `cumsum()` instead of `cumprod()` - I'll admit, I didn't use log returns initially..
- A (quite pointless) Monte Carlo simulation visualisation which 'forecasted' future portfolio returns, without taking into account asset correlations.

But little did I know, this first prototype did in fact one day become something **magical**.

February, 2025

This was the final version before the current revamp. It helped take my team in the WBSS Investment Challenge 2024/2025 to the finals, it really was something beautiful.

From a high level, improvements and feature changes included:

- Changed the style, from that odd green and gray to a more professional blue on white
- Fixed cumulative returns (using log returns now instead of percentage returns).
- Added rolling volatility analysis (Figure 2), this really was a great feature.
- Improved the asset correlation matrix (Figure 3).

And a few more features.



To expand on my previous sentence mentioning the WBSS Investment Challenge, my team **Notts for Profit** managed to finish top 5 out of 80+ teams across the United Kingdom. We met some heavy competition, from brilliant teams from Warwick, UCL and Imperial, however as a team full of first-year undergraduates we really put Nottingham on the map.

Present

At the end of May 2025, I decided to revamp Drapt Analytics, rebuilding it using a modern React frontend (using TailwindCSS and DaisyUI), as well as upgrading the backend.

As well as this, there was a (yet another) name change, with the platform now called **Draft**.

Draught is still in motion, slowly accelerating, but it's already become something far greater than I imagined when I started. Thanks for reading - and welcome aboard.

You may ask, what's next?

- Month 1 → UI, along with dummy forms (such as login, etc.) - where I currently stand.
- Month 2 → the start of work on the backend (FastAPI, webhooks, the lot).
- Month 3 → optimisation, design refinements, and other work (setting up Redis, production DB's).

Welcome aboard, this journey will be an exciting one.

Szymor

- React — the foundation of the frontend.
- Tailwind CSS & DaisyUI — for styling and UI speed.
- Python, Pandas, NumPy, FastAPI — for data wrangling, logic, and the rest of the backend.
- My mentors at NEFS, The Fund, and the WBSS challenge team — for believing in this vision early on.
- And finally, my parents, for their unconditional support throughout my studies.