Konstantinos Papadopoulos

EXPERIENCE

JP Morgan Chase & Co.   September 2020 – present
Software Engineering Graduate
Currently working as a technology graduate at JP Morgan & Chase. I have contributed to the development of a REST API in Java Spring for payment processing and real time tracking based on SWIFT's new GPI initiative. This solution has enabled our main client for now, Alibaba, to provide the suppliers on its platform with real-time payment updates that improve their liquidity management and enable them to dispatch orders without having to wait for the settlement of their customers' payments. I have also worked on the CI/CD side by automating our deployment process using Jenkins pipelines, managing our distributed cloud architecture and writing Linux / bash scripts for some server tasks.

Dragonfly Labs   February 2020 – June 2020
Quantitative Analyst
Worked part-time along with my studies at a market maker startup, Dragonfly Labs, where we were collecting data from multiple exchanges, aggregating them into our Google BigQuery database and developing algorithmic trading strategies based on our findings. My main focus was working with a very large amount of time series and level 2 (order book) data in Google's BigQuery and using numpy, pandas and tensorflow in order to clean, analyse and detect possible patterns that we could then later use to develop our trading strategy. We deployed our models at Google's Compute Engine.

JP Morgan Chase & Co.   June 2019 – August 2019
Software Engineering Intern
Worked as a technology intern at a project where I took ownership of the full development cycle and was tasked with developing a parser sdk that would translate between different SWIFT payment message formats, most importantly the public "MT" and our internal "MX" format. It allowed to construct a message from a Java object and vice-versa, which was much preferable from doing String manipulations, and included a format validator and small-scale SWIFT transaction simulator. Since then, most lines of business have adopted this Java sdk when sending payment messages to our SWIFT platform.

Car 'n Motion Rent a Car   June 2018 – September 2018
Web Developer
Worked as an intern web developer for a car renting company, Car 'n Motion in Greece. My biggest responsibility was connecting our website with the web service of Enterprise Rent-A-Car, so that we could show their car availability updates in real-time, a process which used to be manual. It was a full-stack role where the backend was developed in the .NET framework, the frontend in vanilla HTML/CSS/jQuery and it was my first experience with production code and real-life SQL databases.

EDUCATION

University of Southampton   September 2017 – June 2020
BSc Computer Science
Achieved an overall 1st class honours degree. I have taken courses on Computational Finance, Machine Learning, Algorithmics, Statistics & Probabilities, Data Management, Intelligent Systems and Interaction Design.

My dissertation investigated ways of optimizing simple neural network architectures for better stock price forecasting, along with developing a back-testing framework to prove the feasibility of my approach taking real-world variables (such as trading commissions) into account.

My complete dissertation "Improving RNN performance for financial time series forecasting" can be found here.
(https://konstantinospapadopoulos.com/rnn.pdf)

Panhellenic Exams   June 2017
(Equivalent to A-levels in the UK)
Achieved 5th nationwide for the department of Computer Science
Overall Grade: 18,660 / 20,000 - Mathematics: 18.7/20, Computer Science: 19.5/20, Economics: 19.0/20

SKILLS

Computer skills: Python, Django, Pandas, Numpy, Scipy, Scikit-learn, Tensorflow, H5, Java, Spring Boot, C++, Haskell,
Rest & GraphQL, SQL & Google BigQuery, Git, Linux & Bash scripting, Docker, Jira
HTML5, CSS, Bootstrap, Javascript, React, jQuery, Node.js, .NET

Finance skills: Bloomberg Terminal, Basic knowledge of financial markets & securities like equities, futures, currencies &
options

Soft skills: Articulate communicator, attention to detail, can work independently and collaborate nicely as part of a
team, eager to learn new technologies, attention to elegant solutions

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LANGUAGES

English (Full professional proficiency), German (Fluent, C1 certification), Greek (Native Language)

OTHER PROJECTS

Below are some of the projects I am working on in my free time lately.

Tinderstonk
React, Javascript, Firebase
This simple application was inspired after the recent Gamestop frenzy and classifies the user into 4 investing categories
according to the stocks they like or dislike. They can swipe left and right (like in Tinder) as well as super-like, super-dislike, or
ignore a stock altogether. Although still a work in progress, the final goal is to allow users to create accounts and get matched in
real time with other users that fit their investing style. The currently deployed version can be found here.

Saleor
Django, GraphQL, TypeScript, React
I am contributing to the release 3.0 of saleor, one of the fastest open source ecommerce solutions. Its built with Python DJango
and GraphQL for the backend and Typescript with React for the frontend. I believe it has a lot of potential to compete with
traditional ecommerce platforms and would like to get more involved in the near future.

Babydream.gr
jQuery, HTML/CSS, Python
Having started approximately at the same time I started working at Car 'n Motion, I continue doing some freelance work for
Babydream.gr on my free time. Some of the features I have worked on is creating integrations with various marketplaces in
Greece (Skroutz.gr, Public.gr, BestPrice.gr) as well as shipping carriers for the automatic creation of shipping vouchers. I am
currently working on a python bot that will frequently scrape competitors' prices in one price comparison engine and update
our product feed automatically.