Konstantin Grigorov

Principal Software Engineer

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Summary

I have **5 years of professional experience** in the technology field, and before that, I have obtained an **MEng degree in Computer Science**. I have worked for both small startups, and I have worked for Fortune 500 companies. Hence, I can fit in a well-defined corporate structure and adapt to a flat hierarchy. Sense of ownership, collaboration and cutting edge technology inspires me.

Work experience

Principal Software Engineer / Trading212
04/2021 - Present

London, United Kingdom

- Introducing and improving features on the main backend **Java** platform.
- Architect of the **Python** algorithmic trading platform.
- Collaborating with quantitative researchers and the risk team to implement models executing buy/sell orders for **~17k instruments**.
- Scaling and improving the authentication flow granting access for ~**40k daily active users**.
- Responsible for collecting and parsing business reports.

Sr. Associate Cloud Native Software Engineer / JPMorgan Chase & Co.
01/2020 - 04/2021

London, United Kingdom

- Contributed to one of the largest **Python** codebases, the JPMC **Athena trading platform.**
- Developed a custom **Kubernetes operator** to manage the life-cycle of the platform job-scheduler.
- Worked on an **IaC** solution while migrating the risk service to **AWS**.
- Provisioned a proprietary **globally replicated object-oriented database**.
- Provided worldwide **first-line** support for the platform.

Software Engineer, Algorithms / Playtech
01/2018 - 12/2019

London, United Kingdom

- Designed and delivered a new **FastAPI** Margining microservice conforming with the company-wide initiative of adopting UCDP (Unified Continuous Delivery Pipeline).
- Configured a **Kubernetes** cluster and deployed a dockerised **FastAPI** application on it.
- Implemented numerous sports betting markets together with their pricing functions in **Python** and **NumPy**.
- Redefined parts of the ice hockey model architecture after discovering a bug affecting all overtime markers.
- Improved the time performance of the baseball model by **20%**, done in **Cython** by reducing the number of L2 cache refreshes caused by sparse matrix multiplications.
- Completed more than **100** customer requests with varying severity in out-of-hours time.

Full-stack developer, Lottery / Playtech
07/2017 - 01/2018

London, United Kingdom

- Implemented a barcode detection algorithm in **Python** and **OpenCV** for the **Android** terminals. Automated the barcode scanning by utilising the **Google Barcode API**.
- Migrated the legacy SFTP server on **Amazon EC2**. Due to a major non-functional requirement, the facade pattern had to be adopted to simplify the environment configuration setup.
- Completed the messaging system between the admin panel and the client terminals. The frontend styling was done in **JQuery**, whereas the data assets were being stored in an **Oracle database**.
- Constructed **SQL** queries requested by customers and extended the reporting functionality of the admin panel.

Software Engineer, Graduate Program / The Hut Group
09/2016 - 05/2017

Northwich, United Kingdom

Created an **AngularJS** user interface together with **Java** backend support for the pricing service used by trading managers. Was actively involved in the requirements gathering and refinement.

Systems Engineer, Internship / Cisco
06/2015 - 09/2015

London, United Kingdom

Researched existing and potential customers, in order to support the work of senior account managers. Delivered the valuable insights in the form of **presentations**.

Education

MEng Computer Science
09/2011 - 07/2016

The University of Manchester

Grade: High 2.1

Achievements

In the top 6% of StackOverflow for 2021 Q4

SAS® Enterprise Guide & Enterprise Miner, Data Analytics for Business Decision Making Certificate

UoM first-year project 2011, "Most Interesting First Year Project"

International Physics Olympiad (IPho) 2010, National Qualification Round