Curriculum vitae – Kasper De Blieck

Personal data

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Career

May 2022 – now	Sony	Software developer
Aug 2021 – May 2022	NFT start-up	Solution R&D lead and architect
Sep 2017 – May 2022	Deloitte	Technology consultant
Oct 2017 – Dec 2017	BE Mobile	Algorithm developer (internship)

Education

2020 Postgraduate Applied Informatics: Blockchain Development and Architecture, *Howest*
Thesis: Automated track-and-trace application for tobacco excise stamps on Ethereum

2017 Master of Science in Mathematics, *UGent*
Thesis: Statistical Analysis of Average Treatment effect in the Treated

Certificates

2020 Azure Fundamentals

2019 Blockchain Training Alliance: Certified Blockchain Developer – Ethereum
Blockchain Training Alliance: Certified Hyperledger Developer – Hyperledger Fabric

2018 IBM Planning Analytics – Modeler – 2017

Selection of technical skills

	Python		R		Matlab
	SQL		JavaScript (Node, React)		AWS
	Go		Puppet		Java
	Ethereum		Hyperledger Fabric		IBM Planning Analytics
	Linux		Git		LaTeX

About me

Kasper is an analytical, technical-minded consultant and developer who likes challenges. He has a deep interest in blockchain technology. He is a team player with a winner mentality who always gets along with other people. Writing code in a qualitative, efficient way is one of his focus points. Learning new technologies, being adaptive to new situations and thinking analytically are not a problem.

Kasper likes sports, football and running in particular. If mental exercise counts as sports, you can add chess to that list. Kasper used to be a leader in a youth movement for seven years and was part of the board in the official student organization of Mathematics, Physics and Computer Science at UGent during his studies.

Detailed background and experience

Academic career

Kasper graduated in applied mathematics, with economics as a major. During his studies, he developed an analytical mindset in how to tackle problems. He got into contact with multiple software languages such as **Java**, **R**, **Matlab** and **Python**. Kasper took multiple statistical courses and for his thesis, he studied statistical techniques to determine the effect of a treatment for the group that is actually treated. The methods were scripted and tested in **R** and the paper was written in **Latex**.

At the end of his math studies, Kasper did a six-week internship in the algorithms team of BE-Mobile. He worked on an algorithm to detect blocked roads in a traffic modelling application. The programming language used was **Go**, **QGIS** visualized the traffic data and **Git** (Bitbucket) was the version control tool.

While working at Deloitte, Kasper started studying again and got a postgraduate diploma in applied computer science: blockchain development and architecture. He got interested in the topic after wondering which back-end made things like Bitcoin possible and what else might be possible with this technology. He learned to develop and integrate blockchain platforms like **Ethereum** and **Hyperledger Fabric**, but also gained general experience in cryptography and programming languages such as **Go**, **Javascript** (**Node**, **React**) and even **Arduino**.

For a personal side project, Kasper has done some web development on **Raspberry Pi** (Raspbian)**,** using **PostgreSQL** as a database, **Apache** as web service, **Python** (**Flask**) as back-end and **ReactJS** as front-end.

Deloitte consulting

After his studies, Kasper joined Deloitte in the analytics and information management as a business analyst in September 2017 (with a brief pause in the end of 2017 to complete his Master diploma). In his first year at Deloitte, he mainly created data models using **IBM Planning Analytics** and **SQL Server** in corporate environments. This included working closely together with clients to translate business requirements into a technical solution, collaborating with teams of other technology departments (SAP, SharePoint, etc.) to integrate platforms and taking care of the onboarding of new team members.

After the first year, he shifted to an inhouse software engineering project. The project consistent of deploying a managed service platform able to run custom Deloitte applications for external clients. The first part was developing a custom **Python** framework to easily deploy and maintain network infrastructure on **AWS**. The second part of this project was setting up applications on the servers on the

platform in an automated way, using **Puppet** code and **bash** scripts. The servers were mostly **Linux**. Kasper is used to working with **git** (Gitlab for this project) as a versioning tool.

Afterwards, Kasper worked on statistical models in the financial sector. Here he combined code development with statistics and algorithms to create credit risk models, using **SQL** (**Oracle**) for data preparation and a custom wrapper of the **Kedro** framework (**Python)** for model development. Both **scikit-learn** and **statsmodels** models were use. Coding was done on a **Linux** environment with **git** (Bitbucket) as the versioning tool and **Jenkins** for CI/CD.

Next to the technical knowledge gained at Deloitte, he learned how to work towards goals, the importance of clear communication towards colleagues and clients and working on a project as a team. During the Covid pandemic, working remotely became the standard.

NFT development in a start-up environment

In 2021 and 2022, Kasper has been contributing to an NFT start-up with a workload of approximately 10h/week. The chosen platforms are mainly **Ethereum** and other EVM platforms. Smart contracts were written in **Solidity** and the **Truffle and Hardhat suites** were used for testing and deployment. **Web3.js** and **etherjs** were used to provide a **node** command-line interface to operate the smart contract functions as an administrator, and for front-end integration in **react** as well**.** Kasper was responsible for:

- Technical advice on business requirements
- Research on technical topics
- Development of smart contracts according to standard interfaces (ERC20, ERC721, ERC1155,…)
- Smart contract testing (locally and on test nets)
- Creating a PoC for the front-end integration
- Contract deployment on test-and main blockchain networks
- Operating deployed contracts as the owner

Sony blockchain R&D

In May 2022, Kasper joined the blockchain team of Sony's R&D department as a software developer. He was working on proof of concepts for blockchain-based solutions, mainly regarding secure data sharing and crypto wallets in a corporate environment. Most of the applications were using RESTful API's in **Flask** (**Python**). Testing was done using the **Pytest** framework. Databases were either **AWS DynamoDB** or relational databases. **AWS Lambda** and **AWS API Gateways** were used as infrastructure, using the **Serverless** framework for deployment of the different microservices. **Github** was used for version control, **Github actions** for CI/CD. The teams worked in agile sprints, managed in **Jira**. Client-side libraries were written in **Javascript** as input for the front-end work (which was mostly outsourced). Besides the tasks mentioned before, Kasper worked on onboarding new team members, testing the front end, assess threat modelling, creating demos of the solutions, perform code reviews on pull request written by colleagues, writing high-quality documentation and perform threat modelling.