Curriculum vitae – Kasper De Blieck

Personal data

21/04/1993 – Belgian

+32 494 83 84 82

Watertorenweg 5 2880 Bornem

kasperdeblieck@hotmail.com

https://www.linkedin.com/in/kasperdeblieck/

Career

Aug 2021 – now	NFT start-up	Solution R&D lead and architect
Jan 2018 – now	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*
Major: Economics
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

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 has significant experience in blockchain related research, solution ideation and proof of concept creation through his current role and outside of work interests. 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 where scripted and tested in **R** and the paper 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 developing and integrating blockchain platforms as **Ethereum** and **Hyperledger Fabric**, but also gained general experience in cryptography and programming languages 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 **React** as front-end.

Deloitte consulting

After his studies, Kasper joined Deloitte in the analytics and information management as a business analyst in January 2018. In the first year at Deloitte, he mainly created data models using **IBM Planning Analytics** and **SQL Server**. 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 on boarding of new team members.

After the first year, he shifted to a long-term project requiring more custom programming. The first part was developing a **Python** framework to 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. Coding was done on a **linux** environment with **git** (Bitbucket) as the versioning tool and **Jenkins** for CI/CD.

Besides his daily work, Kasper has been a **core member of the Deloitte Belgium blockchain community** since he started at the firm. The goal of this community is to raise blockchain awareness within the firm, increase the inhouse blockchain expertise and look for opportunities within the blockchain space. Kasper led multiple sessions on blockchain, ranging from blockchain 101 to the presentation of PoC's. For the Deloitte tax business unit, Kasper was the **blockchain lead for a PoC of a track-and-trace DAPP** for tobacco excise stamps. This included solution architecture, smart contract development and front-end integration. Kasper also participated in the Groningen blockchain hackathon 2019, said to be the largest blockchain hackathon in the world. The events lasted four days, of which 48 hours developing the solution. The team won the **second place** in in their track with a digital permission solution for the Dutch chamber of commerce, built on Ethereum. Kasper was again responsible for the technical aspect and the development of the smart contracts in Solidity.

Kasper's current function is senior consultant. His focus is the technical implementation of models and applications. 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

Since August 2021, Kasper has been contributing to a NFT start-up with a workload of approximately 10h/week. Initially, the chosen platform was **Ethereum**. Smart contracts were written in **Solidity** and the **Truffle suite** was used for testing and deployment. **Web3.js** was used to provide a **node** command line interface to operate the smart contract functions as an administrator, and also for front-end integration in **react.** Kasper was responsible for:

- Technical advice on business requirements
- Research on technical topics (e.g. gas war mitigation, staking, reflection principle,…)
- ERC20, ERC721 and ERC1155 smart contract development
- Smart contract testing (locally and on test nets)
- Creating a PoC for the front end integration
- Contract deployment on test and main nets
- Operating deployed contracts as owner (adding new tokens, configuring whitelisting, opening and closing minting timeframes,…)

Due to the overhead of high gas fees on Ethereum, future contracts will be created either on **Polygon** or **Solana**, both options are investigated at the moment.