

0xJacques Dafflon

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Blockchain (and Bullshit) Expert™, software engineer, wrangling pragmatic maintainability with Swiss-precision engineering.

Go >= 6 years | Solidity >= 6 years | PostgreSQL >= 4 years | Python >= 8 years | English *Fluent* | French *Native*

Data Architecture | SQL | Backend architecture | REST APIs | ØMQ | Websockets | DNS | CI/CD

✂ Notable Projects

Swapbox

2019 – present

- > **Serverless DeFI** cash machine without price risk, powered by **free software** and **open hardware**.
- > Development of the **smart contracts**, **GUI**, and **blockchain** interaction. [Python, ØMQ, Solidity, TypeScript]

ERC777 Token Standard

Nov 2017 – Sep 2019

- > Co-author of the standards, main developer of the reference implementation. [Solidity, JavaScript]

ASQ

Nov 2012 – Jun 2014

- > **Open-source** synchronous slideshow mixed with a classroom clicker. [NodeJS, Websockets, Redis]
- > Used by the supervising professor as one of its main **teaching tool** for other classes.
- > Received a university grant to further the development via an internship over the summer holidays.

🧰 Experience

Data Engineer | TokenFlow

Remote | Sep 2024 – present

- > Greenfield **Go** service to process blocks via **Kafka** & **Python** prototyping. [OTel, Prometheus, Snowflake, Redis]

Technical Advisor | Swapbox

Remote | Aug 2023 – present

- > Review the **architecture**, **smart contracts**, and **CI/CD**. Provide insights and assistance to contributors.

Senior Blockchain & Software Developer | TrueLevel SA

Remote | Jun 2019 – July 2023

- > Project & Team **lead** (3 to 5 people) for various clients across multiple time zones (EMEA, US).
- > Upgraded a service—for worldwide, semi-live logistics and tracking of ships—with over **1000× speedup** and increased employee productivity by a factor of 2-3. [Go, PostgreSQL, Graphana, T-AIS, S-AIS]
- > Added type annotation to a whole **Python** code base, cleaning up 60% of it, fixing a dozen bugs, and gaining around 10% in performance in the process.
- > Overhaul of the infra, migration of **domains**, **DNS**, **email** and data, cutting admin tasks in about half.

Quality Assurance | Iden3

Remote | Feb 2019 – Apr 2019

- > Analysis of the entire ecosystem for **quality improvement**. [Go]
- > Creation of a documentation platform. [HTML, Sass, Hugo, Go]

Mid-Senior Full stack Developer | Bity SA

Neuchâtel, NE (CH) | Sep 2017 – Jan 2019

- > Creation of a service and **libraries** to **automate** banking interaction, reducing manual tasks by ~90%. [Python, Asyncio, PostgreSQL]
- > Internal **audits** of more than 10 smart contracts for compliance. [Solidity]
- > **Documentation** of internal processes. [packaging, DevOps, CI, code conventions, ...]

Technical Intern | CERN

Geneva, GE (CH) | Sep 2014 – Aug 2015

- > **Full stack** developer on **Indico**, an open-source event management system developed and used at CERN. [Python, PostgreSQL, Javascript, HTML, CSS]

🎓 Education

M.Sc. in Informatics

2015 – 2018

Università della Svizzera italiana

GPA: 9.6/10 (Summa Cum Laude)

- > Thesis: ERC777, A New Advanced Token Standard For The Ethereum Blockchain
- > Received the Swissengineering Award for Best Master Thesis, USI Faculty of Informatics.

B.Sc. in Informatics

2011 – 2014

Università della Svizzera italiana

GPA: 9.1/10 (Summa Cum Laude)

Microengineering

2010 – 2011

Swiss Institute of Technology (EPFL)

Pursued Bachelor-level courses