

Guillaume Bournel

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EXPERIENCE

Backend developer | *Rust, Python, AWS*

March 2022 – Present

Sun Zu Lab

Paris, FR

- Developed and maintained market data feed handlers for major cryptocurrency exchanges (Coinbase, Binance, Kraken, Bitfinex, Bitpanda, Bittrex, Gate.io and more.)
- Designed and developed end to end market data collection and retrieval pipeline using Kafka (rust-rdkafka, pyo3) for some major cryptocurrency actors.
- Monitored production (using Prometheus and Grafana), maintained and developed internal tooling (VPN, data collection instances, Rust and Python registries, Gitlab CI/CD).
- Benchmarked and optimized market data collection and retrieval infrastructure, improved the speed of our internal order book implementation (made it up to 2x faster on some venues).
- Fixed a big performance bottleneck in the Python/Rust library used by financial analysts to access market data, which made it up to 30 times faster.
- Trained new team members on the Rust codebase.

Fullstack developer | *Python, Typescript, React*

Jan. 2021 – Feb. 2022

Dashdoc

Nantes, FR

- Worked on every end of the codebase (backend using Python/Django, integrations using Integromat, frontend using Typescript/React, mobile application using React native)
- Implemented various features ranging from small API or UI changes to bigger features such as a specific transport dashboard for a major client.
- Designed and implemented internal tooling for the sales team.

Fullstack developer | *Python, Flask, Javascript*

Dec. 2019 – May. 2020

institut-sylvie.fr

Nantes, FR

- Designed and developed the entire website from scratch. Backend is handled by Flask. Frontend is built from HTML/CSS and vanilla JavaScript, persistent data is stored on a MySQL database, website is hosted on a AWS EC2 instance.

Front Desk (part-time)

Dec. 2019 – July. 2020

Kyriad Hotel

Nantes, FR

- Worked as a receptionist while I was still working on my developer skills.

PROJECTS (all my projects can be found on my website and on github)

guillaume.io | *Rust, Yew, Actix, Diesel*

June 2020 – Present

- I maintain an active blog discussing anything related to what I encounter during project development. I also write tutorials and guides. I built the website from scratch using Rust, Yew (frontend), Actix and Diesel (backend).

tinyDLM | *C++, curl, ncurses*

June 2020 – December 2020

- C++ download manager built around cURLpp and ncurses. Learned a lot about C++, multithreading, network and terminal applications in general.

EDUCATION

University of Nantes

Nantes, FR

Mathematics - Physics - Computer Science

Sept. 2017 – June 2018

University of Poitiers

Poitiers, FR

Bachelor of Laws

Sept. 2012 – June 2015

TECHNICAL SKILLS

Languages: Rust, Python, C++, JavaScript, Typescript, HTML/CSS, Haskell

Frameworks: Actix, Yew, React, Django, Flask

Developer Tools: Linux, Git, Gitlab, GitHub, AWS, Kafka, Docker, Vim, Neovim

Libraries: tokio-rs, rayon, crossbeam, serde, diesel, aws-sdk, rdkafka, pyo3