

# Guillaume Bournel

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## EXPERIENCE

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### 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)

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### **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).

### **watchdock** | *Rust, Docker*

May 2023

- Small tool acting like systemd Watchdog for Docker containers.

### **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

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### **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

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**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