

# MICHAEL LOHIER

## PYTHON BACKEND ENGINEER

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### WORK EXPERIENCE

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#### 6WIND

Paris, France

*Python Backend Engineer (2.5 years)*

*May 2021 – Present, Full-time*

- Expanded the product metric tracking system to new monitoring tools (Amazon CloudWatch, Apache Kafka, Elasticsearch, Prometheus...) by developing a custom Python API.
- Enhanced customers' experience by restructuring CLI configuration of network protocols (QoS, TWAMP).
- Demonstrated company product quality by implementing new Grafana dashboards.

#### Appygas

Berlin, Germany

*Full Stack Developer (6 months)*

*Oct 2020 – Mar 2021, Fixed term*

- Drove the evolution of the company website main feature by developing an internal Angular application for oil price standardization over Europe.
- Improved web crawlers' downtime detection by monitoring their status in a Python/Angular application, leading to a long-term increase of 10 percentage points in availability.

#### CogniteAS

Oslo, Norway

*Intern Data Scientist (6 months)*

*Mar 2019 – Sep 2019, Internship*

- Reduced maintenance costs of a company key customer by 500K USD by engineering an ETL automation pipeline in Azure Databricks plugged to a PowerBI dashboard monitoring relevant KPIs for the end user.
- Contributed to an internal R&D application for failure detection of an oil platform by making mock-up tests.
- Drafted customized PowerBI prototype dashboards in an effort to answer a request for proposal.

### EDUCATION

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#### IMT Mines Albi

Albi, France

*Master of Science – Major: Information Systems Management*

*Sep 2016 – Jun 2019*

#### Lycée Charlemagne

Paris, France

*Bachelor of Science – Major: Mathematics*

*Sep 2013 – Jun 2016*

### SKILLS

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**Programming Languages:** Python 3.6+, Golang, SQL, JavaScript (ES6), TypeScript, Bash

**Python Development:** Django, Django REST Framework, Flask, FastAPI, Unittest, Pandas, Numpy

**JavaScript Development:** Node.js, Express.js, Angular, React, HTML 5, CSS 3

**Cloud Computing & DevOps:** Git, Jenkins, GitHub, Docker, GCP, AWS

**Data Engineering:** PostgreSQL, MySQL, Apache Kafka, InfluxDB, Elasticsearch, Prometheus, Graphite, Amazon CloudWatch, Grafana, Microsoft PowerBI

**Languages:** French (native), English (full proficiency)

**Interests:** Chess, Investment, Backpacking

### PROJECTS

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#### Cryptocurrency Trading Competition (Golang, Solidity, AWS, Python, GraphQL)

- Built a trading bot in Golang with an international team of 7.
- Implemented competitive buying strategies scalable to several Blockchains.

#### Photography Portfolio Website (JavaScript, Node, Express, HTML, CSS) | [GitHub](#) | [Website](#)

- Redesigned and developed a responsive professional photography website.
- Used Google PageSpeed Insights and other optimization tools to monitor and improve the website's performance.

#### Flappy Bird AI (Python) | [GitHub](#)

- Revamped the Flappy Bird game with machine learning.
- Designed the game to allow the user to train its own neural network with a genetic algorithm to obtain an AI bird against which it can play.