Gaetan Almela

My name is Gaetan. I am 22 years old and passionate for writing good code, and solving meaningful problems. I'm looking for a job in Software Engineering in the finance industry.

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WORK EXPERIENCE

SIG — *Large scale trading software*   *Philadelphia* | **Jun 2023 – Aug 2023**

− Developed and deployed a **data syncing pipeline** using REST APIs for trading software used by **hundreds of traders every day** to boost productivity.
− Worked in `C` with FPGA drivers.
− Collaborated with cross functional teams, navigated large codebases, and shipped software that scales.

Arandis — *Data science in finance*   *France* | **Mar 2021 – Apr 2021**

− Developed over **60 fully automated** Selenium web scrapers to extract ETF fund data every day.
− Performed data analysis in Numpy and Pandas on **over 45,000 data points** from hundreds of different sources.
− Learned how to work in a team of other developers.

Amazon Marketplace — *Scraping the web*   *France* | **Jan 2019 – Mar 2019**

− Developed a fully automated scraper to extract **over 30,000 data points** from competitors.
− Learned valuable lessons in structuring and writing larger programs.

PROJECTS

Wave Function Collapse — *Safety meets performance*   GitHub │ **2023**

Implemented the Wave Function Collapse algorithm in Rust with compile time type checking, parallel processing, and arbitrary dimensional space and input type.

obx — *Object manipulation done right*   GitHub / npm │ **2022**

obx is a fast, tiny, well documented, and battle-tested object manipulation library for JavaScript with over **1000 tests**. It is used in many of my projects including some listed below.

Accents — *Accent support for Chrome*   GitHub / Web Store │ **2019**

Co-founder of Accents, an extension for Chrome that adds easy accents to the keyboard. It emulates the accent system of MacOS while adding keyboard shortcuts and functionalities. At its peak, the extension had over **40,000 users**.

EDUCATION

University of Maryland   **Fall 2019 – Spring 2024**

Computer Science and Mathematics Double Major. Expected to graduate May 20th 2024.

CMSC320 Data Science , ***CMSC420*** Data Structures , ***CMSC422*** Machine Learning , ***CMSC424*** Database Design , ***CMSC451*** Advanced Algorithms , ***STAT410*** Probability Theory

SKILLS

Web React, Redux, GraphQL, MongoDB, PostgreSQL, Actix Web

Data Science Numpy, Pandas, SciKit Learn, SciPy, Jupyter

Programming Languages Rust, JavaScript, Go, Python, Shell

Other Efficient with **GNU/Linux**, Fluent in **English** and **French**, Rubik's Cube World Championship 2017 Contestant.