

# Ahmad Amine Zrouli

E: [zrouli.aa@gmail.com](mailto:zrouli.aa@gmail.com)

Github: <https://github.com/zrouliaa>

## Education

**Bachelor degree in Computer Science, Mohammed V University**  
September 2020 - Now

*Selected courses:*

Data Structures, Design and Analysis of Algorithms, Operating Systems (Unix), Concurrent Programming, Computer Architecture, Numerical Analysis, Web Development, Linux Scripting, Probability, Linear Algebra.

**Baccalaureate in Mathematics (High school)**  
July 2020

**Technical Staff of the Competitive Programming Club in Mohammed V University, Faculty of Sciences in Rabat.**  
March 2022 - Now

## Work Experience

**Internship at Ministry of Industry and Trade**  
January 2022 - February 2022

During my observation internship, I managed to learn a lot of technical and administrative things in the IT department of the ministry, such as:

- The import of computer equipment and its installation.
- Visit to the largest data center in Morocco.
- The hierarchy of a network system and the security layers used.
- The process of making a web application, from concept to action.
- Administrative procedures for any kind of maneuver in the IT department.

## Achievements

**MNPC Moroccan National Programming Contest**

- **11th place**, among 91 competing teams.

**FPC Future Programmers Contest**

- **1st place** in MFPC Moroccan Future Programmers Contest (March 2019, among +60 teams from all over Morocco's High Schools), and qualified to FPC.
- **20th place** in FPC Future Programmers Contest (April 2019, among +60 teams from all over World's High Schools organized in Aman, Jordan).

**MOI Moroccan Olympiads in Informatics 2019**

- Qualified until 5th round after two coding contests, among +2000

competing highschoolers nationally.

## Projects

Selected projects (<https://github.com/zrouliaa>)

- **Educational Website**
  - It offers a JavaScript course with subscription and gmail smtp server integrated to send emails.
  - Implemented with **HTML**, **CSS** and **JavaScript**
- **Amazon Web Scraper Project:**
  - Track your favorite product from Amazon with an automatic bot that will send you an email when the product hits your preferred purchase budget.
  - Saving the data in a CSV file every day.
  - Implemented using **Python** with **BeautifulSoup** and **Pandas**, and an **SMTP**.
- **Covid19 Data Analysis:**
  - Imported, cleaned, analyzed and successfully visualized the data.
  - Found the correlation between the covid19 infection rates and other worldwide happiness factors.
  - Implemented with **NumPy**, **Pandas**, **Seaborn** and **Matplotlib**.

## Skills

- *Programming: Java, C, C++, Javascript, Python.*
- *Technologies: HTML5, CSS, PostgreSQL, BeautifulSoup, Pandas, NumPy.*
- *Typesetting: Latex.*
- *Operating Systems: MS Windows, Linux (Ubuntu)*
- *Competitive Programming: solved 100+ algorithmic problem solving challenges on online judges.*
- *Languages: Arabic (mother tongue), English, French.*

## Interests

Competitive Programming, Data Analysis, Sports, Drawing, Video Games.