Ahmad Amine Zrouli

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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, Java, UML, Relation of databases, Computer Networks.

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
- **9th place**, among 90 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**.
- **Jumia Web Scraper:**
  - Track your favorite product from Jumia 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**.

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.