

# Youssef Chaabouni

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## EDUCATION

- **Ecole Polytechnique** Palaiseau, France  
*Double degree in Mathematics and Computer Science (CGPA: 4.19 / 4.3)* Sep 2020 – Jun 2023 (expected)
  - First quartile student
- **Pioneer High School of Ariana** Ariana, Tunisia  
*Tunisian Baccalaureate in the field of Mathematics (Grade: 18.95/20)* Sep 2016 – Jul 2020

## EXPERIENCE

- **Google** Paris, France  
*Software Engineer Intern* Jun 2022 - Aug 2022
  - Worked on Corpus++, the migration of YouTube signals from BigTable to C++ structures backed by Spanner.
  - Implemented a backfill library for signals & Added automatically generated documentation for clients.
  - Technologies: C++ metaprogramming, Mustache templates, ProtoBuf, BigTable & Spanner, Flume.
- **XCoin**
  - Created a cryptocurrency in 2 months from scratch in C++ using Proof of Stake.
  - As the leader of the Blockchain team, I had to be fully informed about how different aspects of the cryptocurrency work: the blockchain, different consensus mechanisms, hashing and ECDSA signature algorithm etc.
  - Responsibilities: managing team members and task attribution, full implementation of the blockchain proof of stake algorithm, implementation of transactions algorithm and user wallet.
  - Source: <https://github.com/BXPlus/XCoin>
- **Parkwise: Transport'X Hackathon**
  - Used data from different car parkings in a city to predict where a driver can find an empty car spot in the future.
  - Worked within a team of 5 students on this project at the Transport'X 48-hour hackathon.
  - Source: [https://github.com/youssef-chaabouni/Project\\_31](https://github.com/youssef-chaabouni/Project_31)

## ACHIVEMENTS AND AWARDS

- **Excellence Scholarship Recipient**, Fondation de l'Ecole Polytechnique 2019-2022
  - Awarded upon my admission with honors into the university.
- **Ranked 1st: Gold Medal PAMO**, Pan-African Mathematical Olympiads 2019 Cape Town, ZA
- **Honorable Mention IMO**, International Mathematical Olympiads 2018 Cluj-Napoca, RO
- **Ranked 1st: Gold Medal & Perfect score**, Pan-African Mathematical Olympiads 2018 Nairobi, KE
  - Awarded a perfect score of 42/42 for having perfectly solved all the problems of the competition
- **Bronze Medal, MYMC**, Mediterranean Youth Mathematical Championship 2017 Rome, IT
- **Ranked 24th**, Championnat International des Jeux Mathématiques et Logiques 2016 Paris, FR
- **Ranked 4th Nationally**, Tunisian national High School entry exam 2016 Tunis, TN

## SKILLS

- **Programming Languages:** Python, C/C++, JavaScript, HTML/CSS, PHP, R, Pascal
- **Technologies:** Git, Numpy, Matplotlib, Pandas, Scikit-Learn, BigTable & Spanner, Protocol Buffers, NodeJS
- **Formal proof management:** Coq

## LANGUAGES:

- Arabic, French & English (Trilingual)
- Spanish: Elementary