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 the YouTube Corpus to YouTube Atlas consisting of APIs for YouTube core entities: VAPI, CAPI, PAPI and PoAPI.
  - Implemented a backfill library for signals & Added automatically generated documentation for clients.
  - Technologies: **C++ metaprogramming, Mustache templates, Protocol Buffers, BigTable, Spanner**.
- **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

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 3, C/C++, JavaScript, HTML/CSS, PHP, R, Pascal
- **Technologies**: Git, Numpy, Matplotlib, pandas, BigTable & Spanner, Protocol Buffers, Mustache, NodeJS
- **Formal proof management**: Coq

LANGUAGES:

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