David CHEIKHI

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Passionate about computer science, especially algorithms and optimization, I'm looking for a 4 to 5 months *research* internship.

Education

- **"Hello, Barcelona" algorithmic boot camp | *C++*** — **Barcelona, Spain** — 2017
  - Training week for ACM International Collegiate Programming Contest
  - Co-organized by Codeforces and Moscow Workshops ACM ICPC
- **École polytechnique: France's top-ranking engineering school | *GPA : 3.86*** — **Palaiseau, France** — 2016–2020
  - Majoring in computer science and applied mathematics
- **Preparatory School in lycée Henri Poincaré** — **Nancy, France** — 2014–2016
  - Competitive undergraduate program in maths, physics and computer science
- **Lycée Notre-Dame Saint-Sigisbert** — **Nancy, France** — 2014
  - Scientific Baccalaureate
- **International Olympiads of Informatics (IOI) training boot camps | C++** — **Paris, France** — 2013– 2014
  - Four training weeks for IOI organized by association France-IOI

Professional and teaching experience

- **Google : Site Reliability Intern | *Golang, Python*** — **London, UK** — June – September 2018
  - Creation of a pipeline to get data from the servers
  - Calibration of models to compute a unite of measurement of hardware performance
- **XProjets : École polytechnique's junior enterprise (IT department)** — 2017–2018
  - Improving and maintaining the enterprise's website
  - Developing software to automate recurring work
- **Internship in teaching in high-priority education area** — **Drancy, France** — 2016–2017
  - Six-month internship in Science Ouverte (Open Science) association
  - Teaching science to primary school, middle school, high school and undergraduate students
- **Coach in algorithmic boot camp for high school students** — **Paris, France** — 2014–present
  - Boot camps organized by association France-IOI

Skills and personal projects

Coding/Algorithmic and Mathematics competitions:

- **Regular participant to programming contests | *C++***
  - Taking part in Codeforces, CSAcademy, USACO contests, ACM ICPC training contests, Prologin...
- **Bronze medalist at the 2018 SWERC ACM ICPC contest (10th place)** — **Paris, France**
- **Silver medalist at the 2017 International Mathematics Competition (IMC)** — **Blagoevgrad, Bulgaria**
- **Bronze medalist at the 2014 International Olympiads of Informatics (IOI) | *C++*** — **Taipei, Taiwan**

Research:

- **Optimal decision trees** — **3-student team** — 2018 - 2019
  - Trying to use discrete optimization techniques to generate optimal decision trees
  - A particular focus is set on small decision trees in order to get interpretable results

Development:

- **Fractal drawing Software | *Java*** — 2016
  - Software to easily draw fractals using IFS method
- **Creation and publication of an Android application "Verbes Irréguliers en Anglais" | *Java and MySQL*** — 2012
  - 50,000+ downloads application to Help revising English irregular verbs

Languages: • French: mother tongue   • Spanish: intermediate

Hobbies

- **President of the Ecole polytechnique's algorithmic club**
- **Soccer:** member of the school team
- **Traveling**
- **Tennis, Pool, Table tennis**