



Jack Halford

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🐙 <http://github.com/jzck>

EDUCATION

42 programming school

09/2016–present



- C, Unix
- Shell scripting

ENS Cachan - Physics (3 years university degree)

09/2015–06/2016



- Quantum mechanics
- Special relativity
- Statistical physics
- Computational physics (fortran 95)
- Optics, lasers, electromagnetism
- Complex analysis

2 year preparatory course (PTSI - PT) Lycée Turgot Limoges

09/2013–06/2015

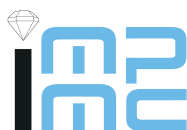


- Mechanical engineering basics
- Automatic control theory, Signal processing
- Classical physics
- Mathematics (real analysis, linear algebra, probability theory)

WORK EXPERIENCE

IMPMC (Institut des minéralogie, de physique des matériaux et de cosmochimie) - Paris

05/2016–06/2016



- 5 week internship in a solid state physics lab
- Tight-binding modeling of rhombohedral graphene.
- Use of fortran lapack library to produce high performance code.
- Improving the understanding of the conduction properties of graphene in exotic conditions

PROJECTS

OpenBikes

OpenBikes is application for visualizing in real time the number of bikes/spaces in bike stations. The visualization is done with **LeafletJS** and a lot of **JavaScript**. The data is scraped (**Python**), stored (**MongoDB**) and analyzed (**sklearn**) in order to make forecast and advise users/cities. The website is live at <http://openbikes.co/>.

SKILLS

Programming Capable in C, Fortran
Adaptability Highly capable and motivated to learn new technologies
Languages Fluent in English and French

DISTINCTIONS

Winner of *DataConnexions*, a national open data competition **2016**
Regional mathematics prize winner at middleschool and highschool **2009, 2011, 2012**

INTÉRÊTS

— Bowling	— Cuisine	— Programmation
— Cyclotourisme	— Lecture	— Logiciel libre
— Aquaponie	— Cinéma	— Electronique