Adrien Suau

2, Place du Foirail
32 600 L'Isle-Jourdain
France
✆ +336 06 90 72 12
✉ adrien.suau@grenoble-inp.org

Master student in computer science and applied mathematics, looking for a PhD in the fields of High Performance Computing or Quantum Computing.

Education

Sept. 2017 – Today
Double degree research master, *MSIAM (Master of Science in Industrial and Applied Mathematics)*, Grenoble, France.
Choosen track: Modeling, Scientific Computing and Image analysis (MSCI).

2015 – Today
Engineering school in computer science and applied mathematics, *Ecole Nationale Supérieure d'Informatique et de Mathématiques Appliquées de Grenoble*, Grenoble, France.
- Second year specialisation: Mathematical Modelling, Vision, Graphics and Simulation.
- Ability to communicate in front of small to medium-sized groups of students.
- Competence in group projects and specific tools such as version control software.
- Graduation expected in 2018.

2013 – 2015
Two-year highly selective classes to prepare for the competitive entrance examinations to French "Grandes Ecoles", *Cycle Préparatoire Polytechnique, "La prépa de l'Institut National Polytechnique"*, Toulouse, France.
- Highly theoretical lectures in mathematics, physics and chemistry with notions in biology.
- Short introduction to research in medium-sized groups.
  Today, image editing software can remove or at least reduce the blur effect on photographies. How do they operate?

2013
French Baccalaureate, *Lycée Joseph Saverne*, L'Isle-Jourdain, France.
Specialisation in mathematics

Work experience

June – August 2016
Work placement, *Infomil*, Toulouse, France.
- Infomil manages the IT system of E.Leclerc, the second biggest retailer in France.
- 9-week paid placement – Research & Development team – System & Network division.
- Acquired knowledge:
  - Web technologies (HTML/CSS/PHP)
  - Perl programming language
  - RRDtool
- Created a capacity planning tool. Integrated it in the existing monitoring software.

May-June 2015
Research placement in a laboratory, *IRIT (Institut de Recherche en Informatique de Toulouse) in ENSEEIHT (École nationale supérieure d'électrotechnique, d'électronique, d'informatique, d'hydraulique et des télécommunications) school*, Toulouse, France.
- 6-week placement.
- Parallel Algorithms and Optimisation team.
- Acquired skills in High Performance Computing.
- Improved my skills in
  - Python programming language
  - Numpy, Scipy and Matplotlib scientific libraries
- Translated an already implemented algorithm from Matlab environment to Python programming language.

| Oct. 2016 – | **Bug Busters**, *ENSIMAG association*, Grenoble, France. |
| Jan. 2018 | Technical advice to students needing help with their computer or the ENSIMAG IT environment. |

- Acquired experience in UNIX systems, specifically CentOS, Ubuntu and Arch distributions.
- Supervised students in their system installation and customisation.
- Assisted the ENSIMAG IT support team.

Projects

| Oct. 2017 – | **Implementation of a distributed *boid* simulator**, *ENSIMAG*, Grenoble, France. |
| Jan. 2018 | |

- School project during the 1st semester of M2.
- Improved my skills in:
  - MPI (Message Passing Interface)
  - C++
  - High performance distributed computations
  - Octree
  - 2D and 3D visualisation using VTK and Paraview

| February – | **Started the implementation of the Lanczos algorithm for highly parallel machines**, |
| May 2017 | *LJK (Jean-Kuntzman Laboratory)*, Grenoble, France. |

- Half a day every week
- Acquired knowledge:
  - OpenCL programming language
  - GPU (Graphic Processing Unit) programming

Special skills

Languages

French	Mother tongue	English	Advanced level
			TOEIC score: 920
Spanish	Intermediary level	Japanese	Basic level

Computer

C++	Intermediate-Advanced	Python	Advanced
SciPy	Intermediate	Git	Intermediate
UNIX/Shell	Everyday use	LATEX	Advanced
Emacs	Everyday use	MPI	Intermediate

Miscellaneous

Today	**67 problems solved on Project Euler site**.
October	**Qualified to the CodeCon finals**, Grenoble, France.
2016	CodeCon is a programming contest created by Bloomberg Engineering programmers where the best students from all around the world are competing against each other.
2015 –	**Academic Basketball**, Grenoble, France.
Today	Team composed of students from 4 Grenoble engineering schools.
2013 – 2015	**Academic Basketball**, Toulouse, France.
2004 – 2013	**Basketball club**, *Union Sportive du Basketball Lislois*, l'Isle Jourdain, France.

- Regional vice-champion in 2011.
- Team captain for 4 years.

| 2010 – 2013 | **Coach assistant**, *Basketball*. |

- Coached 7- or 8-year-old players.
- **2h/week + 4h on Saturday** (match coaching).