

Ilyas TOUMLILT

PhD Student - Distributed and Operating Systems

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27 years old – French

Education

- 2017 – 2021 **PhD Student**, *Distributed and Operating Systems*, Paris.
Sorbonne University, LIP6, INRIA Delys Team.
- 2014 – 2016 **Master degree**, *Distributed Systems and Applications*, Paris.
Sorbonne University (previously UPMC)
- 2011 – 2014 **Licence degree**, *Computer Science*, Paris.
Sorbonne University, (previously UPMC)
- 2011 **Baccalaureate**, *Mathematics*.

Experience

- Sept, 2019 **Thesis Entrepreneur Internship**, *INRIA Startup Studio*, Concordant.
to Aug, 2020 Design and development of an innovative Mobile Backend-as-a-Service platform that facilitates the development of powerful mobile edge applications deployed independently of the Cloud.
First experience building a new startup product, Concordant.
- Starting **PhD Student**, *Sorbonne University, LIP6, INRIA*.
Jan 2017 My research work is on the design of highly available distributed systems, principally consistency protocols in case of replication between Datacenters and Edge Computing devices. Part of the LightKone EU Project.
Built the EdgeAnt middleware and contributed to the AntidoteDB project.
Advisor: Marc Shapiro.
- Starting **Teaching Assistant**, *Sorbonne University*.
Jan 2017 I teach the following courses:
- Programming inside the Linux Kernel (master 1).
- Security and System Administration (master 1).
- Multicore Kernels and Virtualisation (master 2), memory garbage collection part.
- Introduction to operating systems (licence 2).
- Introduction to Java language (licence 2).
- Feb 2016 **Master Academic Internship**, *LIP6, Paris, France*.
to July 2016 First development experience within the Linux Kernel, providing a mechanism to properly and efficiently
6 mos size the cache available in a container, by offering different heuristics to improve page age approximation,
at an acceptable cost.
- June 2015 **Academic Internship**, *INRIA-LIP6, Paris, France*.
to August 2015 First embedded systems experience, calculation and optimisation of software load distribution on an
2 mos automotive SabreLite MX6 board.
- Summer 2014 **Industry Internship**, *CO Marketing, Casablanca, Morocco*.
2 mos Web full-stack development to automate marketing forms and market study reports.

Skills

- General Skills Distributed Systems, Edge Computing, Cloud Databases, Consistency protocols, System Architecture, Linux Kernel, Algorithms, Web development, Hardware Architecture, Virtualization, File Systems, Software Engineering, Open Source
- P. Languages C, C++, Perl, Typescript, Javascript, NodeJS, React, GO, Bash, Objective-C, PHP, Java, Ada, OCaml, Python
- Tools Git, SVN; Debuggers; Profilers; Benchmarks; VS Code, Emacs, Vim

Languages

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|---------|----------------------------------|---------|---------------------------------|
| French | Native or bilingual proficiency | Arabic | Native or bilingual proficiency |
| English | Professional working proficiency | Spanish | Elementary proficiency |

Hobbies

- Sport Track and Field athlete, Cycling, Hiking
- Knowledge Tech enthusiast, Crypto follower, Algorithm competitions
- Student Life Ex-President of the Computer Science Students Association of Paris 6