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Research experience

Telecom Paris Tech & Thales Communication and Security

Jan 2013 - \sim Jan 2016

PhD Candidate

Title: Smart gateways for low-power and lossy networks.

- Workflow for WSN reproducible research with an open source prototype http://github.com/sieben/makesense
- Worked on gateway caching proxy servers
- Active & passive monitoring of constrained networks
- Contiki (C), Java, Wireshark, numpy, matplotlib, pandas, IPython

(advisor: Jean-Louis Rougier, Vania Conan)

Thales Communications & Security - Colombes

2012

Final year's internship

Design and implementation of a proxy server for low power and lossy networks with an adaptive cache policy that match lifetime constraints with acceptable network traffic

Contiki (C), Java, CouchDB (advisor: Jeremie Leguay, Paolo Medagliani)

CEA - DAM - Bruyères-le-Châtel

2010

Intern

Re-factored and debug of a Fortran nuclear physics application gfortran, Sun OS, Red Hat Enterprise Linux, Shell (advisor: Thierry Granier)

Education

ENSIIE, Evry, France

Degree in Computer Science engineering

major in Operating Systems and Network Administration, Routing and Quality of service, Software certification and System Security.

Lycée Fénelon, Paris, France

2008 - 2009

Preparatory school (French CPGE) major in Mathematics and Physics.

Knowledge and skills

Theory: Data Analysis, Database Design, Statistics, Optimization, Numerical Analysis; language and compilation theory; graphs and operational research

Administration: GNU/Linux: System and network administration, Computer Architecture, Operating System

Web: flask, django, nginx, CouchDB, PostgreSQL, redis

SCM: SVN, git, CVS

Scientific software: pandas, numpy, matplotlib, ipython, LATEX, R, Octave (~ Matlab)

Virtualization: VirtualBox, Docker, Vagrant

Networking: Routing and Quality of Service, network architecture and protocols, Wireless, TCP/IP, VPN, Wireshark

Programming: C, Java, ASM (Intel, 68k), Python, SQL, OCaml, Shell, Concurrent Programming, several contributions to free software

Teaching

Type	Hours	Audience	Level	Language Description		
Tut/Lab	18h	$\sim 30 \text{ students}$	1st year eng.	FR	RES101 (BCI Réseaux)	
Tut/Lab		$\sim 10 \text{ students}$	International M2	EN	RES841 (Computer Networks)	
Tut/Lab		26 students	1st year eng.	FR	INF103 (Java programming)	

TOTAL : 99.5 h

Publications

- [1] Fadwa Boubekeur et al. "Bounding Degrees on RPL". In: Proceedings of the 11th ACM Symposium on QoS and Security for Wireless and Mobile Networks. ACM. 2015, p. 123–130.
- [2] Keoma Brun-Laguna et al. "(Not so) intuitive results from a smart agriculture low-power wireless mesh deployment". In: *Proceedings of the Eleventh ACM Workshop on Challenged Networks*. ACM. 2016, p. 25–30.
- [3] Simone Cirani et al. "A scalable and self-configuring architecture for service discovery in the internet of things". In: Internet of Things Journal, IEEE 1.5 (2014), p. 508–521.
- [4] Rémy Leone, Paolo Medagliani et Jérémie Leguay. "Optimizing qos in wireless sensors networks using a caching platform". In: Sensornets 2013. 2013, p. 56.
- [5] Rémy Leone et al. "MakeSense: Managing Reproducible WSNs Experiments". In: Fifth Workshop on Real-World Wireless Sensor Networks (2013).
- [6] Rémy Leone et al. "Technical Overview of F-Interop". In: Conference on Interoperability in IoT (Inter-IoT). 2016.
- [7] Rémy Léone et al. "Demo Abstract : Automating WSN experiments and simulations". In : EWSN 2015.
- [8] Rémy Léone et al. "Demo Abstract : MakeSense—Managing Reproducible WSNs Experiments". In : Real-World Wireless Sensor Networks. Springer, 2014, p. 65–71.
- [9] Rémy Léone, Paolo Medagliani, Jérémie Leguay et al. "Optimisation de la qualité de service par l'utilisation de mémoire cache". In : 15èmes Rencontres Francophones sur les Aspects Algorithmiques des Télécommunications (AlgoTel) (2013), p. 1–4.
- [10] Rémy LÉONE et al. "Tee : Traffic-based Energy Estimators for duty cycled Wireless Sensor Networks". In : ICC 2015.

Projects and collaborations

Ongoing	nro	ioota			
Ongoing	DIO	jecus.	 		

Year Name and funding source Description and comments

since 2012 IRIS (ANR) All IP Networks for the Future Internet of Smart Objects

http://www.anr-iris.fr

Former projects.....

2011–2013 Calipso (EU/FP7) Connect All IP-based Smart Objects

http://www.ict-calipso.eu/

Community

- Multiple contributions on code quality and continuous integration in Contiki
- Support on open source mailing list
- IT administration in a science association (Paris Montagne)

Additional information

Languages: French (native), English (fluent), Spanish (high-school level),