Karine Pires

6 Rue Madeleine Brès, Apt 409, 75013, Paris ● +33 7 87 16 72 62 ● pires.karine@gmail.com ● https://github.com/karinepires

EDUCATION

Université Pierre et Marie Curie, Paris, France.   2012 – present
Telecom Bretagne, Rennes, France.
PhD degree in Computer Science.
- Orchestration of multiple machines and creation of tools to continuously (each 5 minutes over several months) interact with justin.tv and YouTube Live APIs. Proficiency on programing and scripting languages (PHP, Python, R) and manipulation of SQLite sharded databases in order to extract analytical information from APIs data.
- Development with Python and C++ to solve ILP with CPLEX library.
- Usage of multiple version control/sharing tools (GIT, SVN, DropBox, Google Drive) applied for different projects and teams collaborations.
- Participation on the organization of SBAC-PAD 2014 conference.
- Tutoring, during 6 months, of two students in a program entitled "Project S5" at Telecom Bretagne. They developed a linux tool on Qt/C++ for DASH bandwidth estimation.
- Thesis advisors: Dr. Sébastien Monnet and Dr. Gwendal Simon.
- Participation in two teams:
  ○ Regal research group of LIP6 and INRIA-Rocquencourt at UPMC.
  ○ Networks, Security, Multimedia Department at Telecom Bretagne.
- Publications:
  ○ PIRES, K. ; MONNET, S. ; SENS, P. . POPS: a popularity-aware live streaming service. ICPADS. 2014.
  ○ PIRES, K. ; SIMON, G. . DASH in Twitch: Adaptive Bitrate Streaming in Live Game Streaming Platforms. VideoNext. 2014.
  ○ MAILLÉ, P. ; PIRES, K. ; SIMON, G. ; TUFFIN, B. . How Neutral is a CDN? An Economic Approach. CNSM. 2014.
  ○ LAURA, T. ; APARICIO-PARDO, R. ; PIRES, K. ; SIMON, G. ; BLANC, A. ; FROSSARD, P. . Optimal Selection of Adaptive Streaming Representations. TOMM. 2014.
  ○ PIRES, K. ; MONNET, S. ; SENS, P. . POPS : service de diffusion de flux vidéos live prenant en compte la popularité. COMPAS. 2014.
  ○ PIRES, K. ; SIMON, G. . Book chapter entitled "Interactive Multimedia Applications on Clouds: Video services, games, others." (to be published).

Universidade Federal do Paraná, Curitiba, Brazil.   2009 – 2011
Master's degree in Information Technology.
- Publications:
  ○ DUARTE JR., E. P. ; PIRES, K. ; TAVARES, R. A. E. . An Efficient Strategy for Storing and Searching Binary Trees in WORM External Memory. Journal of Information Science, v. 36, p. 751 - 762, 05 nov. 2010.
  ○ PIRES, K. ; COHEN, J. ; DUARTE JR., E. P. . Medidas de Conectividade Baseadas em Cortes de Vértices Para Redes Complexas. XII WTTF. 2011.

Universidade Federal do Paraná, Curitiba, Brazil.   2004 – 2007
BS in Computer Science.
- Participated as a member of a research group with scholarship.
- Worked as a volunteer alumnist at the yearly presentations for new students.

PROFESSIONAL EXPERIENCE

No Zebra Network Ltd., Curitiba, Brazil.   2007 – 2011
Development Manager.
- Managed tasks, employees and technical interviews of the development department.
- Project analysis and development, created diagrams, documented projects, designed wireframes, planning and deployment on production servers, with languages like RoR, PHP and MySQL database. Optimization for large scale web applications, caching strategies, Varnish and Apache server configuration. Administration and maintenance of Web servers on Linux, backups, monitoring server services and availability.
- Produced HTML/CSS pages from PSD files compatible with all main browsers and devices (IE, FF, Chrome, Safari, Android, iPhone, iPad, etc). Create advanced dynamic pages with JavaScript, AJAX and JS frameworks as JQuery and JqueryUI.

PET Computação UFPR, Curitiba, Brazil.   2004 – 2006
Member of PET Computação UFPR with scholarship.
- Participation in research activities; Instructor of PHP/MySQL Courses offered to graduate students; Creation and maintenance of intranet Web systems.

LANGUAGES

Fluent in English, Intermediate French and Portuguese Native speaker.