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Ph.D. student

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EDUCATION

- 10/2005 – 10/2009 (expected)** Ph.D. candidate in computer science entitled: "Secured combination of public and private data" research done at INRIA Paris-Rocquencourt, France. Advised by Professor Georges GARDARIN, Professor Philippe PUCHERAL and Doctor Luc BOUGANIM
- 09/2004 – 09/2005** Master in computer science from the University of Versailles, France. Specialty: Database systems (with honors, ranked first)
- 09/2002 – 09/2005** Engineer diploma in computer science from the "Institut des Sciences et Techniques des Yvelines", Versailles, France
- 09/2000 – 07/2002** Technical diploma in computer science from the "Institut de technologie de Fontainebleau ", Fontainebleau, France

Research Interests: Today, more and more personal sensitive data is collected, processed, stored and shared among a large set of authorized users. My research focus is on the protection of this sensitive data and the combination of sensitive and public data without disclosing any information about the sensitive data.

The research topics I am interested in are database systems, security and privacy, query processing, query optimization and NAND Flash storage.

AWARDS

- French Ministry of Education Fellowship MENRT.
- Special grant from the University of Bertinoro (Italy) to participate to the International School on Foundations of Security Analysis and Design (FOSAD) summer school (September 2007).

PUBLICATIONS

- [1] Anciaux N., Benzine M., Bouganim L., Pucheral P., Shasha D., "Revelation on Demand", Distributed and Parallel Databases Journal, to appear (2009).
- [2] Anciaux N., Benzine M., Bouganim L., Jacquemin K., Pucheral P., Yin S., "Restoring the Patient Control over her Medical History", IEEE Int. Symposium on Computer-Based Medical Systems (CBMS), 2008.
- [3] Anciaux N., Benzine M., Bouganim L., Pucheral P., Shasha D., "Querying and Aggregating Visible and Hidden Data Without Leaks", French Database Conference (BDA), 2007.
- [4] Salperwyck C., Anciaux N., Benzine M., Bouganim L., Pucheral P., Shasha D., "GhostDB: Hiding Data from Prying Eyes", Demo session. Int. Conference on Very Large Databases (VLDB), 2007.
- [5] Anciaux N., Benzine M., Bouganim L., Pucheral P., Shasha D., "GhostDB: Querying Visible and Hidden Data Without Leaks", ACM Int. Conference on Management of Data (SIGMOD), 2007.

EXPERIENCE

- **PlugDB:** The PlugDB research project designs new software and hardware technologies enabling a mobile and secure management of personal data. The project builds upon a new device called Secure Portable Token (SPT), combining the security of smart cards with the mass storage capacity of USB keys. PlugDB addresses the followings technical challenges:
 1. Data management embedded in a SPT device
 2. Access control and secure data sharing
 3. SPT integration in a distributed information system
- **DMSP:** The objective of the DMSP project is to design and experiment a secure and portable social and medical folder. DMSP relies on the technologies developed in the PlugDB research project. The DMSP experiment will be conducted in the context of a medical-social network providing care at home for elderly people. It will involve two gerontological coordinations from the Yvelines District in France. The objective is to improve the healthcare coordination while giving the control back to the patient over how her medical and social data is accessed and shared through a web application.

TEACHING

2006-2007: Lecturer (Moniteur contract) at the University of Versailles

- Architecture concepts : 27 hours (given at the University of Versailles, France)
- Software engineering : 42 hours (given at the IUT of Velizy, France)
- Software engineering : 30 hours (given at the University of Carthage, Tunisia, invited teacher)

2005-2006: Lecturer (Moniteur contract) at the University of Versailles

- Architecture concepts : 27 hours (given at the University of Versailles, France)
- Database systems : 36 hours (given at the University of Versailles, France)
- Software engineering : 30 hours (given at the University of Carthage, Tunisia, invited teacher)

SKILLS

- **Programming languages:** C/C++, Java, JEE (Struts, Spring, Hibernate), PHP, Perl, Python, LISP, JavaScript, Flex, Shell scripting, PL/SQL, PLpgSql, Assembly x86, Assembly Mips.
- **Databases:** Oracle (10g, 9i), MySQL (3, 4, 5), PostgreSQL (7.4), SQL Server (2000, 2005).
- **Operating Systems:** Microsoft Windows (2000, XP, Vista), Linux (Fedora, Debian...), UNIX (SOLARIS, HP-UNIX), cygwin.
- **Developing tools:** Microsoft Visual Studio, Eclipse, LaTeX, CVS, Subversion (SVN).

OTHER ACTIVITIES

- External reviewer: The VLDB Journal, SIGMOD 2008, 2009, ICDE 2008, CIKM 2008, MDM 2008, DEXA 2008, BDA 2008.

REFERENCES

Professor Philippe PUCHERAL

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