

Curriculum Vitæ

Name Alain Knaff
Birth date 05/26/1969 in Luxembourg City
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Studies

- 1988 “Diplôme de fin d'études secondaires”, section B (mathematics) at Lycée Hubert Clément in Esch-sur-Alzette.
- 1988 4th at the 13th Belgian Maths Olympiad.
Participant for the G.D. of Luxembourg in the 29th International Mathematical Olympiad at Canberra (IMO), Australia; bronze medal.
- 1988-1990 Two years preparation in mathematics and physics at the Lycée Louis-le-Grand in Paris for the admission contests at the “Grandes Écoles”.
- 1990 Success at the following admission contests (a.o.):
École Polytechnique: 1st foreigner
École Normale Supérieure: 5th
École Centrale des Arts et Manufactures: 5th (all) and 1st (foreigners)
- 1990-1992 “**Ingénieur** of the **École Polytechnique de Paris**”
- 1992-1993 “Diplôme d'études Approfondies” (**DEA**) in computer science, major: distributed systems, architecture and parallelism on the subject “*Gestion d'objets partagés dans un espace virtuel à 64 bits d'adresse*” (Managing shared objects in a virtual 64 bit address space) with Distinction.
- 1993-1996 “**Thèse de doctorat**” (doctoral thesis) in Computer Science at the Université Joseph Fourier (Grenoble) on the subject “*Conception et réalisation d'un service de stockage fiable extensible pour un système à objets persistants réparti*” (Design and implementation of a reliable and extensible storage system for a distributed persistent object oriented system). This work was done in the framework of the SIRAC project at the INRIA. Defended on October 21st, 1996.

Professional experience

- 04.1992 - 07.1992 Engineering internship: Implemented an enhanced Prolog interpreter which was designed to check the type system of the object-oriented Modula-3 language for the DEC/SRC lab in Palo Alto (Ca/USA). The interpreter is itself written in Modula-3, and runs on Unix.

- 09.1993-07.1996 Taught practical classes on the Pascal and Scheme programming languages for second year students of the DEUG at the UJF (Université Joseph Fourier, Grenoble).
- 12.1996 - 05.2000 *Architecte Technique* at the *Banque Générale du Luxembourg* : Experience in **Java**, Smalltalk and Windows NT. Contact with CICS, DB/2. Developed extensions for the “Object Team” UML *Case Tool* (now known as *Telelogic Tau*).
- 05.2000 - now *Software engineer* at the *Société Européenne des Satellites*. In depth experience in **Java**, Perl, Linux, Tru64, Windows NT, Windows 2000. Contact with XML, DCOM. Development of an object-relational mapping system (DBIF) on top of Oracle. Participated in the development of Astra’s Internet-via-Satellite system, which offers both a VPN and a Proxy solution.

Extra-professional activities

- Various presentations for the Luxembourg Linux User Group (2001, 2002)
- Development of several *Open Source* utilities: **udpcast** (data-transfer via UDP multicast), mtools (access to DOS/Windows filesystems from Unix) et zlibc (transparent access to compressed data). (1993-2001)
- System administration of the Internet connectivity at the Lycée technique Nic Biever, foundation of the LLL initiative (1997-now).
- Development of the Linux floppy driver (1993-1996).

Languages

Fluent English, French, German and Luxembourgish

Computer skills

Programming languages

Excellent knowledge of C, Perl, Java and Smalltalk; good knowledge of C++, Fortran, Forth, Modula-3, Scheme, Intel x86 Assembler.

Systems

Unix system administration and kernel programming (Linux and AIX). Application development on Linux, AIX, Solaris and Tru64. Usage of Windows NT.

Leisure

Ski, reading, movies, traveling, Linux.