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Alexis Praga

Scientific Engineer

PROFESSIONAL EXPERIENCE

- 2011-PRESENT Ph.D thesis at CERFACS (Toulouse, France):
A chemistry-transport model for massively parallel architectures
Skills acquired: Software development (Fortran), code parallelization,
problem analysis & solving, academic & non-academic communications,
project definition & management, technology watch
- FEBRUARY-AUGUST 2011 Internship at DASSAULT SYSTÈMES (Vélizy, France):
Real-time cloth-avatar collisions
Skills acquired: Software development (C++), project integration,
problem solving, company communication
- JULY-AUGUST 2010 Internship at ABSALTO (Grenoble, France): *Modelling an Electrical Network*
Skills acquired: Software testing and documentation
- 2008-2011 Private mathematics less to High School students
Skills acquired: Teaching
- SUMMER 2007 Internship in the Customs Administration (Metz, France)
Skills acquired: Maps management, administration culture

SKILLS

- PROGRAMMING C, C++, Fortran, Python, Perl, Java, Ada, Bash
HPC MPI, OpenMP
NUMERICAL COMPUTING Matlab/Octave/Scilab, Freefm++
OPERATING SYSTEMS Debian/Ubuntu, Gentoo, Archlinux, FreeBSD, Windows
GRAPHICS OpenGL, GLSL, GTK, Vtk, QT, Swing
OTHERS \TeX , Git, LilyPond, Vim, OpenOfficeorg, Microsoft Office
- LANGUAGE English: fluent (TOEFL: 105/120)
French: native
German, Japanese: basic
- OTHERS French driving license, Team First Aid Level 1

EDUCATION

- JANUARY-FEBRUARY 2008 European research course on Atmospheres (ERCA)
- 2008-2011 **Ecole Nationale Supérieure d'Informatique et de Mathématiques
Appliquées de Grenoble (ENSIMAG) (France)**
French graduate school of applied mathematics and computer science
Specialty: *Modelling and Scientific Computing*
Second Year, Mid-term project: *Deca compiler [Ada]*
Second Year project: *PC operating system [C, ASM]*
Third Year project: *Solutions for 2D-incompressible diphasic flows [C++]*
- 2005-2008 Mathematics and Physics "Classes Préparatoires"
A two-years intensive undergraduate program preparing for national competitive exams
- 2005 French Scientific Baccalaureate, with honours

INTERESTS

- MUSIC Piano (6 years of lessons), violin (2 years of lessons)
- SPORTS Biking, Rock'n'Roll, swimming, jogging
- OTHERS Applied mathematics, classical music, Japanese and Roman civilizations