Yinxia ZHAO

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Software Engineer

PROFESSIONAL EXPERIENCE

2012 – 2014
20 months

IT Consultant - Capgemini Sud
Amadeus R&D New Business Unit Rail Department, *Sophia-Antipolis, France*

Development of Rail Distribution Platform projects (SNCF, Eurostar, Trenitalia, SW Linkon, etc)

- Design, Develop and improve Amadeus Rail Distribution Platform back-ends (Native C++ back-ends);
- Responsible of Amadeus middleware network (Service Integrator) configuration for RDP back-ends;
- Negotiate with clients about the network usage and configurations;
- Design unit tests and regression tests (C++ and Python scripts);
- Investigate and debug software problems reported from clients and implement fixes;
- Document and deliver products to clients;

Development Support

- Maintain source control system (Mercurial) of all RDP projects;
- Implement and maintain continuous integration (Jenkins & Hudson) of RDP C++ projects;
- Investigate and fix developers' environment configuration problems;
- Configure Amadeus' internal and external connectivity (Service Integrator).

2012
6 months

Graduate Internship: Hybrid 3D streaming
Dassault Systems DS Research/Massive Life Like Execution*, Vélizy, France*

- Designed and documented a 3D streaming platform;
- Integrated a video compressor (libx264) and de-compressor (ffmpeg) with C/C++;
- Improved and implemented several image processing algorithms;
- Rendered 3D scenes with OpenGL et MSVS C/C++.

2011
6 months

Graduate Internship: Long prediction of IPv4 et IPv6 routing table size
France Télécom Orange Labs CORE/TPN/RIV*, Issy-les-Moulineaux, France*

- Studied and modeled the evolution of IP prefixes and Autonomous Systems
- Programmed in Python and SQL for downloading and processing massive BGP RIB data
- Designed and implemented an algorithm for classification of IP prefixes and Autonomic Systems
- Designed and implemented a mathematical model for the prediction of BGP routing table size

2010
7 months

Project S5: Network of wireless sensors.
RSM Department of ***TELECOM Bretagne****, Rennes, France &* ***INRIA****, Rennes, France*

- Integrated an IPv6 stack in embedded OS (FreeRTOS) with C language;
- Evaluated a TCP header compression algorithm for wireless sensors
- Improved a TCP header compression algorithm for 6LoWPANs and implemented it in embedded OS

EDUCATION

2011 – 2012 MSc degree of **Computer Science**, *University Paris Descartes*, France
2009 – 2011 MSc degree of **DECN** (**Design and engineering of Convergence Networks**), *TELECOM-Bretagne*, France
2005 – 2009 Bachelor's degree of Telecommunication Engineering, *Beijing University of Posts and Telecommunications (BUPT)*, Chine

COMPETENCES AND TECHNICAL SKILLS

Informatique Expert in object-oriented programming, C/C++, Python
Expert in source control management, Mercurial Hg
Very good knowledge of database, Oracle and MySql
Very good knowledge of UNIX, Shell
Frequent user of SonarQube, Jenkins, Hudson
Multimedia Very good knowledge of H.264 (x264, ffmpeg, LIVE555)
Very good knowledge of Image Processing
Réseaux Expert in TCP/IP protocol stacks and routing protocols
Very good knowledge of Telecom architectures and protocols (GSM/WCDMA, SS7)

LANGUAGES

English: read, speak, and write (fluent) – TOEFL iBT (89/120) GRE (410+800+3.5)
French: read, speak, and write (fluent)
Chinese: native language

PERSONAL INTERESTS

Photography (publication in photographic magazines; member of ChinaGCPO)
Travel