Stéphane SAMARA

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Software engineer

Profile

With more than 10 years of experience in software development, I have worked on large and multi-technology projects with high quality requirement. During my professional career, I have acquired a great technical analysis of complex issues, an expertise in scalable software design as well as in performance optimization. Creative and open minded, my challenge is to bring the best solutions particularly in hard constrained environments. I am familiar with agile methodologies and good coding practices to ensure the best code quality and productivity. Adaptive, I feel comfortable in a multi-cultural environment.

Professional experience

Software Engineer C++ - 4D: October 2015 (Current position)

C++ Development for 4D software
- Refactoring and extensions of 4D commands.
- Development C++ with Visual studio and XCode.
- Extensions of 4D interpreter and compiler (grammar bison).
- Agile methods: unitary test with 4D language, scrum mastering, flash features
- Google test framework integration in 4D unitary tests

Software Engineer – Thomson Reuters: June 2005 – September 2015.

Diverse developments for Eikon Desktop application.

Proxy http: March 2015-September 2015.
Development of http proxy server for Eikon application for http(s) requests to optimize bandwidth and to redirect seamlessly to other servers when outage (failovering).

- Implementation of HTTP/S proxy in NodeJS.
- Integration JavaScript Google V8 engine in C++ environment.
- Implementation of NodeJS add-on in C++.
- HTTP, HTTPS, SPDY protocols.
- Monitoring http requests and bandwidth to produce statistics.
- Code profiling and optimization.
- Unitary tests.

Eikon Library: September 2013 – February 2015.
Implementation of Eikon app store to manage client custom components (developed with TR .NET/C++ SDK) integrated in Thomson Reuters Eikon application.

- Publication on store platform.
- Component versioning.
- User rights management for each component.
- Download, installation and upgrade of components.
- Languages: C#, C++/CLI.
- Other technologies: XML, COM, SQL.

Protocol Independent Exchange Layer: August. 2010 to September 2013.
Development for Eikon «market data» library: Protocol Independent Exchange Layer (PIXL).

- Linux/UNIX/Windows development.
- Multithread, sockets, TCP/IP, optimization with Intel Parallel Studio.
- C++ development, Boost/STL, API design.
- Unitary tests with Google Test framework.
- Functional tests in Python based on test workflows in Gherkin using Lettuce.
- Windows performance counters development (Perfmon counters).
- Library to expose C++ code to Python (using Boost).
- Development of data simulator for functional tests in C++ (UNIX/Windows).
- Porting C++ code to 64 bit.
- Collaboration with various internal teams.

Eikon development – Real time team: June 2005 to August 2010.
Various developments in Eikon team (previously Kobra), real time objects for market data team.

- C++, multithread, STL, Win32, COM.
- Web service client in C++.
- Performance code optimization with profiling tools (Intel Parallel Studio, IBM Rational Purify).
- Component managing backup and restoration of user files from distant server.

Trainee: March 2004 to September 2004 – Société Générale – La Défense
Excel add-on to display real time market data.

- Plug-in Excel implemented in C language.
- COM component to display market data within Excel implementing RTD technology.
- Excel interface customization in VBA (Toolbar, buttons).

Formation

- **2004**: Engineering degree (EISTI-Cergy-France)
- **2001**: Diplome Universitaire de Technologie (DUT) of computer science (2 years).

Skills

- C++
- C#
- Multithread
- UNIX/Linux
- Python
- JavaScript
- XML

- Win32 API
- Boost/STL
- COM
- TCP/IP
- Agility
- SQL

Languages

- English: fluent (TOEFL).
- Spanish: conversational

Diverse

- Music practice (guitar, piano, drums).
- Tennis, fitness.
- Travels abroad.