Romain BERTHOLON

14, Rue des Charmilles 42400 Saint-Chamond France Freelance R & D Engineer

+33 (0)6 30 04 39 36 contact@berthor.fr

EXPERIENCE

Dec. 2014 - Apr. 2016 : AVM Informatique (15 months)
Cloud and communication operator. Lyon (France)

http://www.avm-informatique.com/en/

Software engineer (C++, C#, Nodejs)

- Development and maintenance of the fax server and its related applications (C++, C#)
- Refactoring of the existing solutions and introduction of unit tests (GTest / GMock)
- Development of a LDAP / AD connector to identify users (Nodejs, Javascript)
- Level 3 support, bug fixing and maintenance of the various solutions

Dev tools: Visual Studio, MySQL, Linux, Git, TFS, Access

Sep. 2013 - Apr. 2014: IMC Financial Market (6 months) Market Making, Amsterdam

Market Making, Amsterdam

http://www.imc.nl/financialmarkets

Software engineer (C++, Multi-threading)

- Development of tools to analyze auto-traders performances (C++)
- Development of market data streams decoders(C++)
- Development of a tool to purge databases (Java)
- Huge volumes of data to handle (several Tera-bytes / day)
- Language : English

Dev tools: Intellij, TeamCity, MySQL, Git, Jira, MathLab

May 2012 - Aug. 2013 : Quanthouse, S&P (15 months)

Market data / low latency networks, Paris

http://www.quanthouse.com/

Software engineer (C++ / Multi-threading)

- Development of market data streams decoders (C++)
- Performance optimizations of the decoders (Profiling)
- Level 3 support : answers to clients requests

Dev tools: Visual Studio

Mar. 2010 - May 2012 : ArxSys (2 years 1/2)

Open Sources Forensic Framework, Paris

<u>http://www.arxsys.fr</u> - <u>http://digital-forensic.org</u>

R&D Engineer (Python / PyQt, C++ / Qt)

- Development of in depth Linux file systems analysis tools (C++, Python, Qt)
- Development of an indexing engine (CLucene library)
- Development of user interfaces (Qt)
- Advanced documentation of the framework (WikiBook)
- Presentation of the framework to the concerned public (forensic experts)

Dev tools: Git, Trac, Emacs, miscellaneous forensic tools (DFF, Sleuthkit, Autopsy...)

Nov. 2009 - Mar. 2010 and 2008 : Merethis (10 months)

Open source network monitoring, Paris

http://www.merethis.com - http://centreon.com

Development of a data collector (C++)

Oct. 2008 - Feb. 2010 : Horus-Edu

Open Source digital workspace for colleges and universities

Development of the framework (C++ / Qt)

- Contribution to an Open Source project (C++)

COMPETENCIES

Programming

- Expert C, C++ 11/14
- Multi-Threading
- Python
- Nodejs, ExpressJS
- Java, C#, Qt, SQL

Project management

- Git, Svn, TFS
- JIRA, Trac, Redmine
- TeamCity

Systems

- GNU / Linux (Debian)
- MacOS
- Windows 7, 8, 10

Methodology

- TDD, UML,
- Design pattern
- Agile, Scrum, Kanban
- Code review
- Continuous build and integration

Debugging

- Gdb
- Valgrind, helgrind
- Node-inspector

IDEs

- Visual Studio
- CodeLite, Code Blocks
- Emacs
- QtCreator

Databases

- MySQL,
- Access, SqlServer
- Mongo DB

Languages

- French: mother tong
- English

EDUCATION

2006 - 2010 : { Epitech. }

Master of Information Technology

Paris

http://www.epitech.eu

2008 - 2009 : Chongqing University Master of Software engineering

Chongging, China

http://international.cqu.edu.cn/

ADDITIONAL INFORMATIONS

Pastime

Walking in the forest

Interests

Music : Guitar Drawing Reading Biblical Studies

Driving license

Obtained in France in 2003