

# A WORLD OF JOB OPPORTUNITIES.



**Introduction for position  
ID**

Senior C++ Developer  
11611

# CURRICULUM VITAE

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**Place of Residence** Stockholm

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**Profile** A C++ programming expert with consistent success on difficult tasks. Expert in practical use of C++ (25+ years), C++11, C++14, C++17 integration with C#, Solid Windows, Linux, Minimal SQL. Dated experience with other languages, including assemblers. Worked in a number of domains, including finance, business and industrial automation, software development tools.

**Skills & Competences**

- Expert with consistent success on difficult tasks, dedicated and team lead in various projects.
- Problems solving quickly, sometimes instantly;
- Manage how to work under pressure.

**Application Software**

- Excellent command of the following software: Solid Windows, Linux. Minimal SQL.
- Use of C++ (25+ years), C++11, C++14, C++17 integration with C#.

**Education** **High School**

**Work experience** **Sep 2018 – Present**  
**Expert C++ Programmer – Personal Project**

**Your tasks/responsibilities**

- Continuing personal project: writing a parser for C++ language, see motivation in this CV after the Saxo Bank job.
- Changed implementation language from Scheme to C++.
- Implemented a C++ preprocessor of decent quality, extractor of compiler options from a MS Visual Studio projects.
- Generated the formal part of the parser from a publicly available grammar.
- Implemented "pack rat" optimization for the (recursive descent) parser.
- Implementing a parsing context data structure efficient for recursive descent approach; the C++ name lookup algorithm.- Implementing a parsing context data structure efficient for recursive descent approach; the C++ name lookup algorithm.

**May 2015 – Sep 2018**  
**C++ Programmer - Stockholm**

**Your tasks/responsibilities**

- Provided C++ expertise to an ambitious company developing a fast database engine and a business software platform.
- C++11, C++14, C++17, STL, Boost, Git (GitLab, GitHub), Google Test, CMake, TeamCity
- Implemented and maintained metalayer – a component between SQL processor, app host and DB engine, providing meta-data for tables and indexes creation, transparent upgrade from older versions of meta-data.
- Together with another developer ported the C# app host to the new CRUD api. Designed and implemented a cache for data frequently needed for CRUD api, the data was too slow to get via DB engine, a multi-threaded cache entirely wait-free.

**Jan 2012 – April 2015**  
**C++ Programmer – Personal Project**

**Your tasks/responsibilities**

- Doing self-funded research into writing a parser for the C++ language for eventually making tools for C++ code analysis and modification.
- Implementation: R6RS Scheme, C++11, C++14, STL, Git.
- During my years of programming with C++ I often faced a code which was difficult to understand just by inspecting with naked eye and difficult to safely modify manually.

**Sep 2009 – Dec 2011**  
**Contract C++ Programmer**

**Your tasks/responsibilities**

- C++, eventually C++11, STL, refactoring (semantically invariant code transformations), MS TFS, MS SQL Server.
- Fixed severely complicated critical C++ code, while no one else could, under considerable pressure, where errors could had unwanted consequences: separated calculations of FX Forward from FX Spot open positions in Account Summary Views of Margin & Exposure Calculation Server version 3.

**Nov 2007 – Aug 2009**  
**Software Developer**

**Your tasks/responsibilities**

- Design and implementation of a software component for HTTP/HTTPS traffic capture.
- Design and implementation of a compiler/runtime for a tiny subset of SQL expressions language. C#. 3 days of work in total.
- Rstat for C# implementation (over open-source RPC library).

**Feb 2006 – Oct 2007**  
**Software Developer - Amsterdam**

# CURRICULUM VITAE

## **Your tasks/responsibilities**

- Extending and refactoring company's flagship product, Sitestat, (website analysis system) in C++.
- Implementation of SOAP external API for Sitestat website analysis system.
- Linux, C++, STL, SAX2 (Xerces), XSLT(Xalan), HTTP, SVN, Jira.
- Implementation of XML Schema – based request/response validation for Sitestat server.
- Linux, C++, DOM, SAX2 (Xerces)

**Apr 2003 – Jan 2006**

**Senior Engineer, Amsterdam**

## **Your tasks/responsibilities**

- Senior software engineer for MarketXS (currently MarkIt) Amsterdam, NL
- C++ programming for real-time market data applications.
- Improved software for real time market data capture.
- C++ programming on Sun Solaris and Linux platforms, using STL, POSIX threads, Oracle(OCI), MySQL, Reuters SFC API over TIBCO bus, JNI, CVS.
- Designed and implemented C++/SOAP wrapper on Windows platform based on SAX2 XML parser.

**Apr 2003 – Jan 2006**

**C++ Developer and Personnel Trainer**

## **Your tasks/responsibilities**

- C++/STL development of various internal pilot projects,
- C++ training of personnel and adaptation of personnel for Dutch labour market

**Apr 2002 – Apr 2006**

**C++ Developer and Personnel Trainer**

## **Your tasks/responsibilities**

- C++/STL development of various internal pilot projects,
- C++ training of personnel and adaptation of personnel for Dutch labour market.

**Apr 2001 – Apr 2002**

**C++ Developer - Rotterdam**

**Apr 2000 – Apr 2001**

**C++ Developer – Amsterdam**

**Dec 1998 – Dec 1999**

**C++ Developer and Java Developer – St. Petersburg, RU**

**Nov 1996 – Sep 1998**  
**C++ Developer and Programmer - St. Petersburg, RU**

**Jul 1995 – Aug 1996**  
**Programmer - St. Petersburg, RU**

**May 1994 – July 1995**  
**Programmer - St. Petersburg, RU**

**1989 – Apr 1994**  
**Programmer**

**Languages**

- Russian - Native
- English – Fluent

**Hobbies**

- Machine Processing of C++ source code