C++ (Junior) Developer for SAP HANA Graph

Purpose and Objectives

Are you passionate about Software Development and about to finish your IT degree?

Do you want to start your career at the world market leader for enterprise software?

Do you see your professional development in a team of very skilled people with great team spirit?

We are looking for talents like you to join our SAP HANA Geo Services team!

If you join the SAP HANA in-memory database team, you will part of a team that is the basis for new, ground-breaking SAP applications. In-memory computing is made possible through recent technology advances in main memory, multi-core processing, and data management. It leverages technology innovation to establish real-time analysis of business data and combines both transactions and analytics to improve existing business processes with a significant increase in performance. The SAP HANA in-memory database as basis for the in-memory computing is the key driver for SAP market of the future.

You will be part of the development team in Walldorf with more than 100 exceptionally talented and motivated colleagues. Other development teams are located all over the world and you will be collaborating closely with them. We at the SAP HANA in-memory database team live code development in a flexible and agile way in small self-organized teams.

Within our team, we practice a trust-based working model. If you need to work flexibly from another location or at another time you can do so given your manager’s agreement.

To find out more about the SAP HANA in-memory database team, check out our video: http://youtu.be/-9pKaVplBGo

Expectations and Tasks

We are looking for talented graduates to join our SAP HANA Graph team in Walldorf which are passionate about algorithms and software development. We are focusing on the development of a graph engine for processing all kinds of connected data such as social-, street-, or biological-networks. Such networks might contain millions of nodes and edges and must be processed in real-time with our in-memory technology.

As a part of the HANA Graph team, you will research about new ways of graph compression, develop novel graph indexing techniques, and implement efficient graph algorithms for the latest enterprise hardware models. Our current focus is on a domain specific language for custom graph algorithms, graph pattern matching, additional build-in algorithms, and integration with other SAP HANA core engines.

APPLY HERE! sap.com/careers

Please note that SAP only accepts applications submitted via our online recruiting system. Individuals with disabilities who require a reasonable accommodation in the job application process should contact HR Direct (Americas: hrdirectamericas@sap.com, APJ: hrdirectapj@sap.com, EMEA: careers@sap.com)
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In all focus areas, you can expect to...

- write software implementations using C++ and other languages
- write regression tests for your own code using different programming languages (e.g. C++, Python, SQL) and testing frameworks (e.g. Google C++ Testing Framework)
- conduct code reviews and code audits to spot opportunities for improvements with respect to usability, testability, supportability, or potential performance penalties

Education and Qualifications / Skills and Competencies

Required skills:

- Strong C++ programming skills and experience in implementing performance-critical algorithms
- Good Bachelor’s/Master’s degree or equivalent in computer science or related technical discipline
- Good knowledge of standard graph algorithms. Knowledge of graph theory is a plus.
- Good knowledge of data structures, algorithms, and software design
- Familiar with relational database management systems
- Verbal and written working proficiency in English and German
- Ability to analyze and debug complex problems

Preferred skills:

- Experience in administration, programming or profiling on LINUX
- Familiar with code-analysis tools e.g. Valgrind, Intel Amplifier, Cppchecker
- Experience with continuous integration concepts and tools e.g. Git, Gerrit
- Python or Shell-Scripting programming skills
- Knowledge of architecture of relational database management systems

Work Experience

- 0-2 years of practical experience in the area of system or application programming with C++ in form of student jobs, internships, etc.
- We are looking for candidates who are committed to a technology career path. Please make sure your set of application documents contains a cover letter and CV, copies of the obtained degrees and references.

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