

tomaskislan

c++ developer

contact

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languages

slovak mother tongue
english fluency

programming

C++, Boost, Qt & QML
NodeJS & Javascript
Python
PL/SQL

experience

2014 - Now

Kistler

Bratislava, Slovakia

Software Developer

Working on both C++ backend(mainly) and Javascript frontend parts of an application running on an embedded device. Application is expected to be a successor to older version of software, that is one of the best in field of plastic injections.

Maintaining a custom linux distribution used on the embedded device, including multiple background linux services, e.g. web server, logging, etc. Responsible for system integrity, installation process, and continuous user friendly upgrade on customer devices.

Also maintaining a quality development environment, like build systems for various parts of the application, and whole continuous integration process.

2010 - 2014

Erste Group IT SK

Bratislava, Slovakia

Solutions Developer

Development of new generation transfer system, pluggable into the existing middleware, with heavy usage of asynchronous and multi-threaded programming paradigm. Created multi-agent system, with custom developed network TCP communication to allow best throughput. Huge emphasis placed on extensibility, thus API is provided to allow fast development cycles of new features.

- Deployment and maintenance through multiple different operating systems, such as Linux, Windows, OS X, HP-UX, AIX, Solaris.
- Experience with multiple 3rd party libraries, Boost (asio/thread), Oracle Call Interface, etc.
- Advanced usage of GNU tool chain, valgrind, including HP-UX's gdb, and AIX dbx debuggers.
- Minor development in python and shell, mainly to support testing, and PL/SQL to integrate into the middleware.
- Mentoring summer interns, and helping them with C++ comprehension.

2010

SOOP

Bratislava, Slovakia

Summer Intern

Comparing and creating test cases for multiple compression libraries against multiple file types, for archiving purposes.

technical skills

C++	Deep specialization, and strong preference of this programming language 4 years Cross-platform application development, utilization of various 3rd party libraries, e.g. Boost, Qt/QML, OpenSSL, OCI etc. Ability to maintain and support complex applications through various different platforms. Practical usage of C++11 standard in medium size applications.
Javascript	Experience with larger single page applications 2 years Development of complex embedded application in AngularJS framework, but striving to more bleeding edge technologies like ReactJS, etc.
NodeJS	Personal, hobby development 2 years Ability to create complex back-end applications, with the advantage of sharing the same code base with the client side. Fancy the asynchronous approach to event processing.
Python	Basic knowledge 2 years Used to create testing scripts, to assist in development of more complex C++ applications. Proved useful in prototyping several features.
PL/SQL	Advanced usage in the enterprise 3 years Basic knowledge of Oracle database internal processes, to provide the best performance. Used to implement utility packages to handle integration, and to maintain and monitor existing software.
Linux, Yocto	Development OS, Maintenance of custom distribution 1 year Used as main development OS, and its usage is highly preferred for best efficiency. Also experienced with building custom distribution using the OpenEmbedded(Yocto) build framework, advanced linux OS administration, including configuring and maintaining various linux services.
UML	Light usage, to better comprehend processes Used both before and after the development cycle, to better understand and present the architecture and processes in the application.

leadership skills

2013 - 2014	Internship mentor Mentoring two interns (in separate timelines), in creating the new components to be later used in the existing transfer adapter, running in the production environment. Delegating and overseeing work being done, while providing feedback and advices.
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education

2011 - 2014	Masters of Science Specialization in Applied Informatics <i>Implementation of Offline Transfer System pluggable into batch middleware?</i> Both masters thesis and work project. Fast performant transfer adapter, very similar to ETL tools.	Comenius University, Bratislava
2008 - 2011	Bachelor of Science Specialization in Informatics	Slovak University of Technology, Bratislava

interests

professional: GUI application development, raspberry pi, bleeding edge web technologies
personal: volleyball, biking, fitness, books, my car