

# tomaskislan

c++ & javascript & sql developer

## contact

Bulharska 26  
Bratislava 821 04  
Slovak Republic

+421 918 797 745

kislan.tomas@gmail.com

## languages

slovak mother tongue  
english fluency  
german learning

## programming

NodeJS, Express  
Angular, React, Redux  
Docker (compose)  
C++, Boost, Qt & QML  
Python, Robot  
Framework  
PL/SQL, PL/pgSQL

## experience

2014 - Now

### Software Developer @ Kistler

Bratislava, Slovakia

*Global leader in dynamic measurement technology*

Working in an agile team on both **C++** backend and **Javascript (ReactJS, AngularJS)** frontend parts of an application running on an embedded device, which is being used for monitoring and controlling of plastic injection process.

Maintaining a custom linux distribution (using **Yocto/OpenEmbedded**), including multiple background linux services, e.g. web server, logging, etc.

Configuring and maintaining a quality development environment, including continuous integration process, using **Docker, Jenkins**, etc.

2010 - 2014

### Solutions Developer @ Erste Group IT SK

Bratislava, Slovakia

*Subsidiary company of Slovenska Sporitelna, developing banking system*

Design and development of new **multi-agent transfer system**, pluggable into the existing middleware, with use of asynchronous and multi-threaded programming paradigm.

It's being used as an alternative to commercial (mostly Java) **ETL** tools, to transfer data between multiple systems, including **DWH**, as it performed at least 2x faster when transferring data between databases.

- Huge emphasis placed on extensibility, simple configurability, and performance.
- Deployment and maintenance on multiple different operating systems, such as Linux, Windows, OS X, HP-UX, AIX, Solaris.
- 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.

## projects

2016 - Now

### DockMan

Docker web management

<https://gitlab.com/tkislan/dockman>

OSS project

Material design, user friendly web management of docker engine.

NodeJS and ReactJS + Redux application.

2016 - Now

### Metropolitan Real

Reality office web site

<http://www.metropolitanreal.sk>

Material design ReactJS application, with a NodeJS backend, backed up by PostgreSQL database. Implemented server-side rendering for faster page rendering, and Search Engine Optimization. Searching through properties is boosted by Postgres Trigram extension, which is a very effective way for measuring the similarity of words in many natural languages.

## education

2011 - 2014	<b>Masters</b> of Science Specialization in Applied Informatics <i>Implementation of Offline Transfer System pluggable into batch middleware</i> Masters thesis and a work project. Fast performant transfer adapter, essentially an ETL tools.	Comenius University, Bratislava
2008 - 2011	<b>Bachelor</b> of Science Specialization in Informatics	Slovak University of Technology, Bratislava
2014 - Now	<b>Conferences</b> Attending different conferences on a yearly basis. E.g. webexpo, fosdem, craft, etc.	Worldwide

## technical skills

C++	<b>Middleware and embedded applicaitons</b> Cross-platform application development, using various 3rd party libraries, e.g. <b>Boost</b> , Qt/QML, OpenSSL, OCI etc. Ability to maintain and support complex applications through various different platforms. Practical usage of <b>C++14</b> standard. Performance tuning using gperf, valgrind, etc.	5 years
Javascript	<b>Experience with larger single page applications</b> Development of a complex embedded application in AngularJS, but nowadays striving to <b>ReactJS &amp; Redux</b> . Design and development of <b>NodeJS</b> backend with rest api endpoints using Express. Using ReactJS server-side rendering to increase search index of search engine crawlers. Practical knowledge of <b>webpack</b> , and it's internals, including a development of custom plugins.	3 years
Docker	<b>Development and production deployment</b> Setting up cross-platform development environment with <b>docker-compose</b> , building production images, and managing deployment of multiple containers.	2 years
Python	<b>Scripting &amp; Robot Framework</b> Used to create testing scripts, to assist in development of more complex C++ applications. Proved useful in prototyping several features. Writing simple simulator applications. Extending Robot Framework with custom embedded application requirements.	2 years
Databases	<b>Oracle, PostgreSQL, &amp; MongoDB</b> Basic knowledge of database internal processes, ability to tune the performance. Used to implement utility packages to handle integration, and to maintain and monitor existing software. Advanced knowledge of <b>PL/SQL</b> and <b>PL/pgSQL</b> .	3 years
Linux, Yocto	<b>Development OS, Maintenance of custom distribution</b> Experienced with building custom distribution using the Yocto/OpenEmbedded build framework, advanced linux OS administration, including configuring and maintaining various linux services.	2 years

## leadership skills

2013 - 2014	<b>Internship mentor</b> 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.
-------------	--

## interests

**professional:** GUI application development, raspberry pi & odroid, bleeding edge web technologies  
**personal:** volleyball, biking, fitness, books, my vw golf