

tomaskislan

c++ & javascript & sql developer

contact

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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	Masters 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	Bachelor of Science Specialization in Informatics	Slovak University of Technology, Bratislava
2014 - Now	Conferences Attending different conferences on a yearly basis. E.g. webexpo, fosdem, craft, etc.	Worldwide

technical skills

C++	Middleware and embedded applicaitons Cross-platform application development, using 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++14 standard. Performance tuning using gperf, valgrind, etc.	5 years
Javascript	Experience with larger single page applications Development of a complex embedded application in AngularJS, but nowadays striving to ReactJS & Redux . Design and development of NodeJS backend with rest api endpoints using Express. Using ReactJS server-side rendering to increase search index of search engine crawlers. Integrating C++ code into NodeJS (V8 api) . Practical knowledge of webpack , and it's internals, including a development of custom plugins.	3 years
Docker	Development and production deployment Setting up cross-platform development environment with docker-compose , building production images, and managing deployment of multiple containers.	2 years
Python	Scripting & Robot Framework 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	Oracle, PostgreSQL, & MongoDB 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 PL/SQL and PL/pgSQL .	3 years
Linux, Yocto	Development OS, Maintenance of custom distribution 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	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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interests

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