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CONTACT
INFORMATION

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OBJECTIVE

Computer science focusing on new technologies and a general overview.

EDUCATION

Charles University in Prague, Faculty of Mathematics and Physics

PhD Studies,   2016 - 2020

- Specialization: Software Systems
- Thesis topic: *Linked Data Consumption Platform*
  The publication of data as Linked Open Data (LOD) gains traction. There are lots of different datasets published, more vocabularies are becoming W3C Recommendations and with the introduction of DCAT-AP v1.1 and the emergence of the European data portal and a multitude of national open data portals, lots of datasets are discoverable and accessible using their DCAT-AP metadata in RDF. Yet, the consumption of LOD is lacking in comfort and availability of tools that would exploit the benefits of LOD and allow users to discover, access, integrate and reuse LOD easily, as promised by the promoters of LOD and supposedly paid by the additional effort put into the 5-star data publication by the publishers. Compared to the consumption of 3-star CSV and XML files, the consumption of LOD is still quite complicated and the LOD benefits are not exploited enough nor visible enough to justify the effort for many publishers. The purpose of this thesis is to contribute to the future Linked Data Consumption platform by selecting several requirements identified in [1] and elaborate them in a form of research papers and experimental software implementation.
  [1] Jakub Klímek, Petr Skoda, Martin Necaský. Requirements on Linked Data Consumption Platform. LDOW 2016 at WWW 2016.

Master Studies,   2012 - 2015

- Specialization: Software Engineering
- Thesis topic: *Exploitation of Linked Data for sharing public agreements data*
  The objective of the thesis is to explore the possibilities of using Linked Data principles for publishing and sharing data on contracts of public institutions and their connections to related data in the public domain (eg. Business and trade register, register of contracts, etc.). Thesis presents the entire process of opening up contracts. Defines a data standard for open contracts and proposes an ontology for the publication of data on contracts and their interconnections. Furthermore, it designs and implements a platform for publishing contracts. The first part of the platform is a conversion module enabling the conversion of contracts stored in relational databases into RDF form. Employed are R2RML mapping techniques. The second part is a uniform repository that downloads data on contracts in Linked Data format. The third part is a web application that will make the data on contracts available to end users.
- Software Project: *CES - Coober Execution System*
  Coober Execution System (CES) is a custom electronic trading platform, trading software and online financial brokerage services that was developed for the Coober Fund company as a part of the Software Project course taught at the Faculty of Mathematics and Physics at the Charles University in Prague. It was designed to automatically execute and monitor Coober trading activities using external traders simultaneously with main internal strategies.

Bachelor Studies,   2008 - 2012

- Specialization: Computer Science
- Thesis topic: *RFS - Route Finder System*
  The objective of the thesis is to design and implement a navigation system utilizing the route find library JRGPS. The resulting application Route Finder System provides an effective and user friendly way to find routes combining public transport and walking.

Gymnasium J.K.Tyla, Hradec Králové, Czech Republic

Graduation Exam, May 2008   **2004 - 2008**

PROFESSIONAL
EXPERIENCE   **TRIADA, spol. s r.o.**, Prague, Czech Republic

Software Developer (external)   **October 2012 till now**
- Design and implementation of IS Munis, ERMS
- using C#, MS SQL, Oracle, MS Prism, WPF, WCF, Entity Framework

FillBill, SE, Prague, Czech Republic

Software Developer   **March 2012 - September 2012**
- Design and implementation of ERMS
- using C#, MS SQL, MS Prism, WPF, WCF, Entity Framework

Freelance

Software engineer, Web developer   **2008 till now**
- Analysis, design and implementation of desktop and web applications.
- using C#, C/C++, Java, Php, Mysql, Xhtml, Css, JavaScript

Foxconn, Pardubice, Czech Republic

Technician   **Summer 2008**
- Data analysis and optimization using AutoCad.

PROJECTS   **Contracts Register**, *C#, MS SQL, MS Prism, WPF, WCF, Entity Framework, 2014*
Contracts Register for municipalities using .NET, Model-View-ViewModel (MVVM) design pattern, code first approach (Entity Framework), MS SQL and Oracle database

CES - Coober Execution System, *C#, MS SQL, MS Prism, WPF, WCF, NHibernate, 2013*
Custom electronic trading platform, trading software and online financial brokerage service using .NET, Model-View-ViewModel (MVVM) design pattern, code first approach (NHibernate), MS SQL database

ERMS - Electronic Records Management System, *C#, MS SQL, MS Prism, WPF, WCF, Entity Framework, 2012*
Complex information system for municipalities using .NET, Model-View-ViewModel (MVVM) design pattern, code first approach (Entity Framework), MS SQL and Oracle database

RFS Route Finder System, *C/C++,C#, 2011*
Extension and modification of JRGPS library. Design and implementation of web service over native DLL. Design and implementation of web client using the web service.

COMPUTER SKILLS	**Programming languages** C/C++, .NET(C#, WPF, MS Prism, Silverlight, WCF, ASP.Net, Entity Framework, NHibernate), Java, Php, Prolog, Haskell, LaTex
	Web Xhtml, Css, JavaScript
	Database MS SQL, MySQL
	Operating systems Microsoft Windows, GNU/Linux, UNIX
	Administration Windows server(Active directory), MS SQL, MySql, Apache
	Networking The basic ability of configure, operate, and troubleshoot medium-size routed and switched networks
LANGUAGE SKILLS	**English** advanced
	German basic knowledge
	Czech native speaker
MISCELLANEOUS	Driving license group B
PERSONAL QUALITIES	Team player, perspective, flexible, presentation skills.
HOBBIES	IT, computer science, programming, webdesign, science, math, economics, sport, music(guitar, piano), movies, books, public affairs