

Josef Bušta

Curriculum Vitae

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Work Experience

- 2015–2017 **Python developer**, *Menier* .
- Development of web applications for data analysts
 - Technologies: Python Web Frameworks (Web.py, Tornado, Flask), Neo4j, SQL, d3.js, jQuery, Ajax, Bootstrap
- 2014–2015 **Proof of concept**, *Technology Transfer Office of Masaryk University* .
- Methods for translation memories mining
 - Scripting in Python and Bash
 - Machine translation tools: Moses, MGIZA++, KenLM, IRSTLM
- 2012–2013 **Python developer**, *SkyPicker (Kiwi.com now)* .
- Web scrapping and parsing

Education

- 2015 **Master in Computer Science (Artificial Intelligence and Natural Language Processing)**, *Faculty of Informatics, Masaryk University, Brno, Czech Republic*.
Enlarging Translation Memories, *Master thesis*, in English.
- overlapping phrases decoder – new iterative algorithm proposal and implementation for overlapping phrases concatenation
 - fuzzy match treatment – new method proposal for high quality translation
- 2013 **Erasmus**, *Faculty of Engineering and Faculty of Economics, University of Porto, Porto, Portugal*.
- 2012 **Bachelor in Computer Science (Artificial Intelligence and Natural Language Processing)**, *Faculty of Informatics, Masaryk University, Brno, Czech Republic*.
Semantic classification of prepositional phrases, *Bachelor thesis*, in Czech.
- definition of semantic classes for prepositional phrases
 - automatic semantic classification for Czech prepositional phrases
 - using semantic classification of prepositions and hypernym/hyponym relations in WordNet

Some School Projects

- R** Text classification
- Ruby** Scripts for scraping parallel texts from lyrics and subtitles
- Python** Processing Europarl Parallel Corpus for Sketch Engine
- C++** Implementation of sliding block puzzle

C Print entered time in words [cs/en]

Research Interests

Machine translation, Language modelling, Natural language processing

Technical Skills

L^AT_EX (typesetting system), Unix (operating system), Git (version control system)

Volunteering

Children's Summer Camp Leader – Czech Republic, 2012 – 2017

International Documentary Film Festival – Jihlava (Czech Republic), 2005 – 2016

Youth Work Camp (Leader) – France, 2014

Youth Exchanges (Participant) – France, Armenia, United Kingdom, etc.

Disaster and Humanitarian Relief

- Cleaning and disinfection work. – floods, Czech Republic, 2009.
- Organization of humanitarian aid in the warehouse – refugee camp, Greece, 2016.

Languages

Czech mother tongue

English upper intermediate

German basics

Portuguese basics

Driving Licence

since 2005 B (car)

Interests

art, theatre, documentary film, crop plants, cross-country running, biking, hiking, traveling, chess, go (game), strategies