Ondřej Sotolář | Curriculum Vitae

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Summary

Ph.D. candidate researcher in Natural Language Processing (NLP) with focus on: tool-assisted Large Language Models, detection of psychological phenomena in dialogue, and personal data anonymization. Married, 2 children. Living in Zastávka u Brna and working in Brno, Czech Republic, EU.

Publications

- Calc-X and Calcformers: Empowering Arithmetical Chain-of-Thought through Interaction with Symbolic Systems. In EMNLP 2023. `https://arxiv.org/abs/2305.15017`
- Classification of Adolescents' Risky Behavior in Instant Messaging Conversations. In: AISTATS 2023. `https://proceedings.mlr.press/v206/plhak23a.html`
- Constructing Datasets from Dialogue Data. In RASLAN 2022. `https://nlp.fi.muni.cz/raslan/raslan22.pdf#page=141`
- Researching the Links Between Smartphone Behavior and Adolescent Well-being With the FUTURE-WP4. In JMIR research protocols 2022.
- Testing innovative methods for research on children's technology usage. In ECREA 2021.
- Detecting Online Risks and Supportive Interaction in Instant Messenger Conversations using Czech Transformers. In RASLAN 2021. `https://www.academia.edu/download/97991282/raslan21.pdf`
- Towards Personal Data Anonymization for Social Messaging. In TSD 2021. `https://link.springer.com/chapter/10.1007/978-3-030-83527-9_24`

Education

Ph.D. candidate	**Masaryk University, Brno**
currently ongoing	*started in 2020*
Jan 2023 finished Advanced Masters - awarded RNDr. degree	
Master's programme	**Masaryk University, Brno**
Mgr., Applied Computer Science	*alumni 2020*
Dean's award for best master's thesis	
Erasmus exchange	**KU Leuven, Belgium**
-, Master's programme in Artificial Intelligence	*2018*
Bachelor's programme	**Masaryk University, Brno**
Bc., Applied Computer Science	*alumni 2017*

Awards and Honors

IOCB Tech Foundation, Prague	
Martina Roeselová Memorial Fellowship	*2022*
Masaryk University, Brno	
Dean's award for best master's thesis	*2019*

Past & current employment and contracts

Masaryk University, Faculty of Informatics	**Brno**
Ph.D. Researcher	*Feb 2019–2023 end of year*

Researcher and full-stack developer for research team irtis.muni.cz. Research area: NLP, topics: personal data anonymization, detection of psychological phenomena in dialogue, tool-assisted Large Language Models. Tech used: Python, PyTorch, HuggingFace, Numpy, Pandas, scikit, and UDPipe. Support work includes designing Android, web, desktop, and server apps and infrastructure. Technologies used: Linux, PostgreSQL, Java, Spring Boot, Android, Python, JavaScript, and JavaFX. My Ph.D. duties include supervising and reviewing student thesis', preparing lectures and overall assisting with teaching.

Czechitas **Brno**
Programming coach (C#) - part time *Oct 2017–Jan 2018*

Coaching an Introduction to C# course in the Fall 2017 semester.

Moravia IT s.r.o. **Brno**
Software developer (C#) - contract *Mar 2017–Jun 2018*

Development of integration solutions in C#. Technologies used: MSSQL, Entity framework, REST webservices, Hangfire, and others.

Home Credit International a.s. (EmbedIt) **Brno**
Software developer (C#,Java) - full time employee *Feb 2014–Oct 2015*

Automation and testing tools development, such as automated testing frameworks for .NET and Java, PL/SQL scripts, courses on automated testing for testers, CI (SVN, Jenkins with Windows and Linux hosts). Employee of the month for a data miner for QQ social network.

IReSoft s.r.o. **Brno**
Software developer (C#) - full time employee *Jan 2013–Dec 2013*

Information systems development (IS Cygnus 2). Technologies used: C#, nHibernate, MSSQL, WinForms, DevExpress, frontend. SCRUM.

CUPtech, s.r.o. **Brno**
Software developer (Java) - contract *Sep 2011–Jan 2012*

Part-time job in startup company. Development of backend for web applications on the Java platform.

ON Semiconductor a.s. **Rožnov pod Radhoštěm**
Software developer (Java) - summer internship *summer 2011*

Web application development. Java, Spring for backend. Tapestry for frontend.

Quadbase Systems Inc. **home office (Jihlava)**
Software tester - contract *Jun–Oct 2011*

Testing of client-server application on Java platform. Cooperation with international development team.

Projects

TechniservIT s.r.o. **Brno**
Authentication library for .NET Core, C#, OAuth, OIDC *Jul 2018–Sep 2018*

Other Certifications

Deep Learning **Coursera**
Certificate Id: TR26L9UBCJKE *Oct 2021*