

# SERGE KOTCHOURKO

M.Sc. INFORMATIK STUDENT



[serge.kotchourko@gmail.com](mailto:serge.kotchourko@gmail.com)



[kotchourko-serge.de](https://kotchourko-serge.de)



Stuttgart, Baden-Württemberg, 70569



[github.com/confusedSerge](https://github.com/confusedSerge)



[linkedin.com/in/kotchourko-serge](https://linkedin.com/in/kotchourko-serge)

## education

### MASTER OF SCIENCE (M.Sc.) IN INFORMATIK (STUDENT)

Apr 2022 - Present  
University of Stuttgart,  
Stuttgart, Baden-Württemberg  
Current Grade: 1.3

### BACHELOR OF SCIENCE (B.Sc.) IN INFORMATIK

Oct 2017 - Mar 2022  
University of Stuttgart,  
Stuttgart, Baden-Württemberg  
Grade: 1.9

## experience

### LEAD SOFTWARE DEVELOPER

Aug 2022 - Present  
TTI GmbH, DUREL TGU,  
Stuttgart, Baden-Württemberg

Lead Developer overseeing all facets of the application development and deployment. This includes (non-exhaustive):

- Assessment of Requirements
- Architectural Decisions (e.g. Database, APIs, Back- and Frontend)
- Assessment and Prevention of Security Risks
- Implementation of Maintainable and Flexible Code Base

### ACADEMIC TUTOR

Apr 2021 - Jul 2021  
University of Stuttgart,  
Stuttgart, Baden-Württemberg

Managed multiple groups of students, serving as a first point contact for assistance in understanding the lecture material and corresponding exercises. This also included holding group and one-to-to meetings and grading exercise sheets.

### STUDENT ASSISTANT

Oct 2021 - Jun 2022  
University of Stuttgart,  
Stuttgart, Baden-Württemberg

Maintained existing software to correct errors, adapt it to user needs, while also analyzing possible security risks (e.g. Log4Shell).

### ACADEMIC TUTOR

Nov 2020 - Feb 2021  
University of Stuttgart,  
Stuttgart, Baden-Württemberg

Assisted multiple small groups, which were developing a software solution for a company based on their requirements, by providing feedback, teaching and deepening core software development concepts.

### **SOFTWARE DEVELOPER**

Oct 2019 - Mar 2020

Radical Minds GmbH,  
Karlsruhe, Baden-Württemberg

Development of intern software solution, while adhering to Agile practices.

### **ACADEMIC TUTOR**

May 2019 - Jul 2019

University of Stuttgart,  
Stuttgart, Baden-Württemberg

Holding multiple tutoring sessions accompanying the lecture about Computer Engineering/Architecture, deepening the understanding of the studied material.

### **ACADEMIC TUTOR**

Oct 2018 - Mar 2019

University of Stuttgart,  
Stuttgart, Baden-Württemberg

Holding multiple tutoring sessions accompanying the lecture for Programming and Software Development , deepening the understanding of the studied material.

## **other**

### **Effects of Pre- and Post-Processing on type-based Embeddings in Lexical Semantic Change Detection**

Apr 22, 2021

Publication in Association for Computational Linguistics

Lexical semantic change detection is a new and innovative research field. The optimal fine-tuning of models including pre- and post-processing is largely unclear. We optimize existing models by (i) pre-training on large corpora and refining on diachronic target corpora tackling the notorious small data problem, and (ii) applying post-processing transformations that have been shown to improve performance on synchronic tasks. Our results provide a guide for the application and optimization of lexical semantic change detection models across various learning scenarios.