



# Hasan Selman KARA

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Info	Nationality: Swiss, Turkish Birthday: 24.12.1995
Education	<b>FHNW Windisch (2015–2019)</b> Bachelor Computer Science Fields: NLP, Functional Programming, Distributed Systems, Full-Stack-Dev  <b>Informatikmittelschule Baden (2011–2015)</b> EFZ Applikations-Entwickler Kaufmännische Berufsmaturität
Employment & Experience	<b>Bachelor’s Thesis, Shouldcosting GmbH (2018–2019)</b> Developed & integrated a “programming by example”-system for data-cleaning. Synthesize programs in a custom DSL for complex string-manipulations by giving input-output-examples. ( <i>program synthesis, PBE, C#</i> )  <b>Student-Project, Endress+Hauser Flowtec AG (2017–2018)</b> Feasibility study for semi-automated processing of material-certificates in the goods receipt. Reduce human error extracting values from PDF-documents.  <b>Programmer, FHNW i4Ds (2015–2017)</b> ◊ Developed the Karmabooster app and back-end for SWISSAID for easier donation collection. ( <i>Spring-Boot; Cordova; Postgres; AngularJS</i> ) ◊ Added an NLP based classifier for an internally developed crawling framework. ( <i>StanfordNLP; Java; Lucene; Tika</i> ) ◊ Developed system to crawl AJAX based websites and provide labeled data for a ML-model. ( <i>Selenium; Docker; Spring-Boot</i> )  <b>Intern, FHNW i4Ds (2014–2015)</b> ◊ Developed the “TwinSearch” Android app to help find lost twins. ◊ Developed internal project planning application. ( <i>JavaFX</i> ) ◊ Web-App which crawls websites, extracts nouns, weighs them by importance and displays them in a word-cloud.
Languages & Skills	German (native), English (CAE), Turkish (good), French (basic) Java (Spring-Boot, Java EE, concurrency), Python (pandas, numpy, matplotlib), JavaScript (React, Angular), Linux, C#, SQL, Docker, Android, L <sup>A</sup> T <sub>E</sub> X

References   Prof. Dr. Manfred Vogel  
Fachhochschule Nordwestschweiz  
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Group leader Institute for Data Science  
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