

# Lukas Graber

## Student



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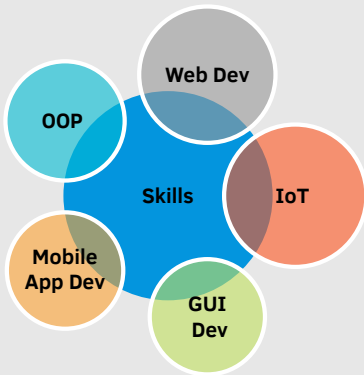
/in/lukas-graber/



lulu98

## Skills

### Overview



## Programming

0 LOC —————> 6000 LOC

C • Python • C#

HTML5 • CSS • JS • PHP

Java • R • C++

## Technical Knowledge

0 —————> 5

Linux • Git • PyQt •  $\LaTeX$

Android Studio • Docker • RasPi

## Languages

beginner —————> native

German

English

## Education

2019 -	<b>MSc., Computer Science</b>	Technical University of Munich (TUM), Germany
2016 - 2019	<b>BSc., Computer Science</b> (Grade: 1.0)	University of Tuebingen, Germany
2016	<b>Abitur</b> (Grade: 1.0)	Scheffel-Gymnasium Bad Säckingen, Germany

## Experience

Feb 2019 - Aug 2019	<b>Working Student</b>	Bosch Connected Devices and Solutions (BCDS) GmbH	<ul style="list-style-type: none"><li>Developed a Human-Machine Interface (HMI) for a structure-borne noise sensor called Intelligent Vibration Analysis Sensor (IVAS).</li><li>Coordination with an external design agency as well as implementing the HMI, according to the Bosch Design guidelines.</li></ul>
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## Projects

Mar 2020	<b>COVID19 Mobile App</b>	<ul style="list-style-type: none"><li>This mobile app provides basic data for countries affected by the COVID19 virus by interacting with an OpenSource API.</li><li>The app is built with Java in Android Studio.</li></ul>
Mar 2020	<b>LOC Counter for GitHub</b>	<ul style="list-style-type: none"><li>Python application that counts the lines of code (LOC) for all repositories of a specific user account on GitHub.</li></ul>
Feb 2020	<b>Music Transcription Tool</b>	<ul style="list-style-type: none"><li><b>Melody Detection</b> - records sound over a microphone and extracts a melody from the recording. The recognized melody will then be translated into a musical notation and put on a digital notesheet.</li><li><b>Chord Detection</b> - records sound over a microphone and detect the different musical notes in the given chord.</li><li><b>Audio Spectrogram</b> - analyzes the recorded sound and generates an Audio Spectrogram.</li></ul>
Sep 2019	<b>Retro Games</b>	<ul style="list-style-type: none"><li>Web application featuring some of the old retro games like Pong, Snake, Tetris and Space Invaders.</li></ul>
Sep 2018	<b>Voice Controlled Calculator</b>	<ul style="list-style-type: none"><li>A small .NET application written in C#.</li><li>The calculator uses the built-in Speech Recognition from Microsoft and translates spoken formulas into a mathematical expression and calculates the result of this expression.</li></ul>

## Awards & Certificates

2019	<b>IELTS Academic</b>	<ul style="list-style-type: none"><li>Score: 8.0/9.0 - CEFR Level: C1</li></ul>
2016	<b>DMV Mathematics Price</b>	
2015	<b>Driving License</b>	<ul style="list-style-type: none"><li>Car Classification: B</li></ul>