

# Lukas Graber

## Student



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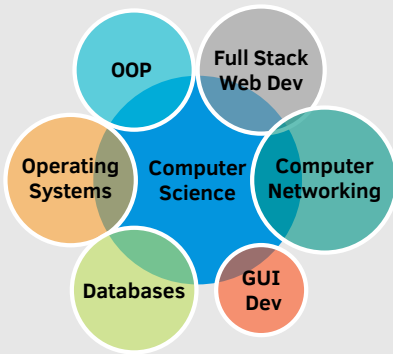
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## Skills

### Overview



### Programming

0 LOC —————> 6000 LOC

C • Python • C#

HTML5 • CSS • JS • PHP • SQL

Java • R •  $\text{\LaTeX}$

### Technical Knowledge

0 —————> 5

Linux • PyQt • Visual Studio

Docker • Git • Raspberry Pi

## Languages

beginner —————> native

German

English

## Education

2019 - now **MSc., Computer Science** Technical University of Munich (TUM), Germany

2016 - 2019 **BSc., Computer Science** (Grade: 1.0/4.0) University of Tuebingen, Germany

2016 **Abitur** (Grade: 1.0/4.0) Scheffel-Gymnasium Bad Säckingen, Germany

## Experience

Feb 2019 - Aug 2019 **Working Student** Bosch Connected Devices and Solutions (BCDS) GmbH

- Developed a Human-Machine Interface (HMI) for a structure-borne noise sensor called Intelligent Vibration Analysis Sensor (IVAS).
- Coordination with an external design agency as well as implementing the HMI according to the Bosch Design guidelines.

## Projects

Mar 2020 **LOC Counter for GitHub**

- Python application that counts the lines of code (LOC) for all repositories of a specific user account on GitHub.

Feb 2020 **Music Transcription Tool**

- **Melody Detection** - A tool that records sound over a microphone and extract a melody out of it. The recognized melody will then be translated into musical notation and put on a digital notesheet.
- **Chord Detection** - A tool that records sound over a microphone and detect the different notes in the chord.
- **Audio Spectrogram** - A tool that analyzes the recorded sound and generates a Audio Spectrogram.

Sep 2019 **Retro Games**

- Web Application featuring some of the old retro games like Pong, Snake, Tetris and Space Invaders.

May 2019 **Chess Game**

- Chess application built in Python with a custom graphics library.

Sep 2018 **Voice Controlled Calculator**

- A small .NET application written in C#.
- 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.

## Awards & Certificates

2019 **IELTS Academic**

- Score: 8.0/9.0
- CEFR Level: C1

2016 **DMV Mathematik Abitur Preis**

- Mathematics Prize

2015 **Driving License**

- Car Classification: B