Lukas Graber

Student

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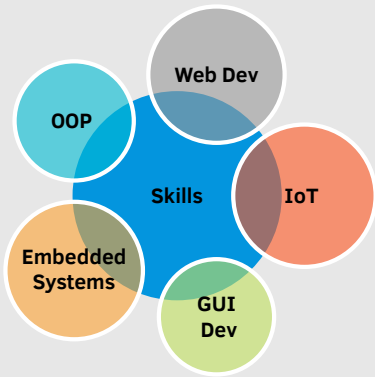
in /in/lukas-graber/

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Skills

Overview

Programming

$0\,LOC$ ——————→ $6000\,LOC$

C • Python • C#

HTML5 • CSS • JS • PHP

Java • R • C++

Technical Knowledge

0 ——————→ 5

Linux • PyQt • LaTeX

Docker • Git • Raspberry Pi

Languages

beginner ——————→ *native*

German

English

Education

2019 -	**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** - 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.
- **Chord Detection** - records sound over a microphone and detect the different musical notes in the given chord.
- **Audio Spectrogram** - analyzes the recorded sound and generates an 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