Lukas Graber

Student

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Skills

Overview
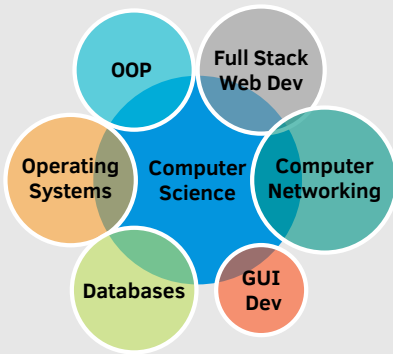
Programming

$0\ LOC \longrightarrow 6000\ LOC$

C • Python • C#

HTML5 • CSS • JS • PHP • SQL

Java • R • LaTeX

Technical Knowledge

$0 \longrightarrow 5$

Linux • PyCharm • Visual Studio

Docker • Git • Raspberry Pi

Languages

$beginner \longrightarrow native$

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.

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