Jonáš Kulhánek

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EDUCATION

Charles University

MSc in Artificial Intelligence

Expected Jun 2021

Faculty of Mathematics and Physics Cum. GPA: N/A

Czech Technical University

BSc in Computer Science

Jun 2019

Faculty of Electrical Engineering Summa cum laude Cum. GPA: 3.64 / 4.00 Major GPA: 3.74 / 4.00 Final exam grade: A

Sungkyunkwan University

Dec 2017

College of Sciences and Engineering One semester visiting student Cum. GPA: 4.00 / 4.00

Gymnázium Žďár nad Sázavou

Jun 2016

Secondary school

LINKS

Github://jkulhanek LinkedIn://jonaskulhanek Twitter://jonaskulhanek StackOverflow://kulhanek

SKILLS

PROGRAMMING

Over 50 000 lines:

C# • Python • JavaScript • C++ Java • React • PyTorch • MEX

Over 5 000 lines:

Haskell • Scheme • Markdown

SQL • YAML • TensorFlow

Familiar

TypeScript • YAML • Lua • Docker

LANGUAGES

English C1 Czech native

EXPERIENCE

CIICR | RESEARCHER

Jul 2019 - Nov 2019

- Visual navigation using deep reinforcement learning
- PyTorch, Slurm, Numpy

TU DELFT | RESEARCHER

Jan 2019 - Nov 2019

- Visual navigation using deep reinforcement learning
- TensorFlow, Keras, Numpy

VALATRON | BACKEND DEVELOPER

Jun 2018 - Jan 2019

- Architecturing Node.js API backend and .NET Core backend
- Working on SPA frontend (React.js)
- Creating Azure Functions
- Node.js, .NET Core, Azure Functions, React.js, ...

SOFTINUM SYSTEMS S.R.O. | FOUNDER

Feb 2017

CENTER FOR MACHINE PERCEPTION | RESEARCHER

Feb 2018 - Jun 2018

- Building object detectors using fully convolutional neural networks
- Preparing object detection datasets
- Python, TensorFlow, Numpy, OpenCV, ...

ALZA.CZ | FULL-STACK DEVELOPER

Jun 2016 - Feb 2018

- Architecting backend (.NET core, WCF, SOA, SQL)
- Designing continuous integration in TFS
- Front-end website development (ASP.NET Web Forms)

CZECH NEWS CENTER | MOBILE APPLICATION DEVELOPER

Mar 2015 - May 2016

- Tydenik Reflex app for Windows Phone MVVM Light
- Reflex app for Windows 8 MVVM Light
- Blesk app for Windows 8 and Windows Phone 8 build with Prism
- .NET, MVVM Light, Microsoft Prism, sqlite3, XAML

PUBLICATIONS

Vision-based navigation using Deep Reinforcement Learning

Sep 2019

Jonáš Kulhánek and Erik Derner and Tim de Bruin and Robert Babuška, 2019 European Conference on Mobile Robots (ECMR), 2019, p.1-8

Visual Navigation using Deep Reinforcement Learning

May 2019

Jonáš Kulhánek. Bachelor thesis