Jonáš Kulhánek

https://jkulhanek.github.io
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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**

TEACHING

Introduction to Artificial Intelligence
Teaching assistant | Summer 2020
FEL, Czech Technical University

SKILLS

PROGRAMMING
Over 50 000 lines:
C# • Python • JavaScript • C++
Java • React • PyTorch • LaTeX
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*