

# Jonáš Kulháněk

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## EXPERIENCE & PROJECTS

### TU DELFT (2019)

- Visual navigation using deep reinforcement learning
- TensorFlow, Keras

### VALATRON S.R.O. (2018-2019)

- 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, ...

### ČVUT CENTER FOR MACHINE PERCEPTION (2018)

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

### ALZA.CZ A.S. (2016 - 2018)

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

### CZECH NEWS CENTER, A. S. (2015 - 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

### GSK, A. S. (2014)

- App for tracking team work
- Single page application
- ASP.NET MVC, HTML5, Knockout.js

### RINGIER AXEL SPRINGER CZ, A. S. (2012)

- **iSport** app for Windows 8
- MVVM, .NET, sqlite3

## SKILLS AND KNOWLEDGE

### PROGRAMMING

- App development for **ASP.NET MVC**, ASP.NET Web Forms
- App development for Windows Desktop in Visual C# (**WPF**)
- Tensorflow, Pytorch, Python 3.6, Numpy, OpenCV and other libraries
- App development for WinRT and **Windows Phone** in **Visual C#**
- **SQL** – language, knowledge of execution plans, optimization techniques and tools, Service Broker
- Knowledge of **.NET Core**, ASP.NET Core,..., experience with Microsoft.Extensions libraries
- Writing scripts in C# or Javascript for Unity 3D
- Basic experience with Node.js
- Development and design of web applications, knowledge of **PHP**, CSS3, HTML5 with those libraries (React.js, Knockout.js, JQuery, **Wordpress** and more...)
- Knowledge of other programming languages – Python, C, C++, Java (in combination with Spring)

### NETWORK ADMINISTRATION

- Ubuntu, bash, basic knowledge of **docker**
- Knowledge of Windows Server 2016+, IIS 10+ e.c.t.
- Knowledge of **TFS** – configuration, Build and Release Management, configuration of Git repositories, TFS API

### SKILLS

- Test driven development
- Using SOLID principles
- Ability for adapt quickly to new technologies
- Broad spectrum of knowledge of IT domain
- Working in a team
- Analytic approach to problem solving
- Experience with freelancing

## EDUCATION

Gymnázium Žďár nad Sázavou  
Sungkyunkwan University (undergraduate, one semester)  
ČVUT FEL (undergraduate, studying)

## LANGUAGES

**English (C1)**  
French (basic skills)