

# Stefan Kapunac

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## Basic information

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**Date of birth:** 08.01.1997.

**Languages:** Serbian (native), English (fluent), Spanish (basic), German (basic)

**Area of interest:** Machine learning, Bioinformatics

## Work experience

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<b>Faculty of Mathematics, University of Belgrade</b> <i>Teaching Assistant</i>	<b>Belgrade, Serbia</b> 2020 –
<b>Faculty of Mathematics, University of Belgrade</b> <i>Junior Teaching Assistant</i>	<b>Belgrade, Serbia</b> 2019 – 2020.

## Education

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<b>Faculty of Mathematics, University of Belgrade</b> <i>PhD studies - Informatics</i>	<b>Belgrade, Serbia</b> 2020 –
<b>Faculty of Mathematics, University of Belgrade</b> <i>Master's degree - Informatics</i> GPA: 9.71	<b>Belgrade, Serbia</b> 2019 – 2020.
<b>Faculty of Mathematics, University of Belgrade</b> <i>Bachelor's degree - Informatics</i> GPA: 9.80	<b>Belgrade, Serbia</b> 2015 – 2019.
<b>High school „Uroš Predić“</b> <i>Socio-lingual sciences</i> GPA: 5.00 (diploma „Vuk Karadžić“)	<b>Pančevo, Serbia</b> 2011 – 2015.

## Skills

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**Programming languages:** Python, C++, C, Java, C#, Haskell, R, Scala, JavaScript, Prolog, Matlab

**Other:** HTML, CSS,  $\LaTeX$ , Isabelle/HOL, KNIME, SPSS Modeler, Git, Docker

## Projects

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<b>ECG digitization</b> <i>Master thesis</i>	<b>Belgrade, Serbia</b> feb. 2019 – sep. 2020.
<ul style="list-style-type: none"><li>○ Digitization of scanned ECG images</li><li>○ Implemented in Python (OpenCV)</li></ul>	
<b>Monocular Depth Estimation</b> <i>Faculty team project</i>	<b>Belgrade, Serbia</b> aug. 2020 – sep. 2020.
<ul style="list-style-type: none"><li>○ Estimation of depth from a single image</li><li>○ Implemented in Python (PyTorch)</li></ul>	
<b>Word Sense Disambiguation</b> <i>Faculty team project</i>	<b>Belgrade, Serbia</b> aug. 2020 – sep. 2020.
<ul style="list-style-type: none"><li>○ Word sense disambiguation using PageRank</li><li>○ Implemented in Python (NLTK)</li></ul>	

### **Pineapple**

*Faculty team project*

- Multiplayer game platform based on microservices
- Implemented in C# (.NET) and JavaScript (Angular)

**Belgrade, Serbia**

*aug. 2020 – sep. 2020.*

### **Mouse Run**

*Faculty team project*

- NEAT algorithm for playing a game
- Implemented in C++ (Qt)

**Belgrade, Serbia**

*feb. 2019 – jun. 2019.*

### **Flight Control**

*Faculty team project*

- Flight control simulation - landing schedule optimization
- Implemented in C++ (Qt)

**Belgrade, Serbia**

*nov. 2018 – jan. 2019.*

### **Projective Geometry**

*Faculty individual project*

- Projective distortion removal from an image and 3d reconstruction from two images
- Implemented in C++ (Qt, Eigen)

**Belgrade, Serbia**

*nov. 2018 – jan. 2019.*

## **Awards and competitions**

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### **„Nedeljko Parezanović“ award**

*Best graduate students of informatics*

**Belgrade, Serbia**

*2019.*

### **TADHack global hackathon**

*1st place globally and locally*

**Belgrade, Serbia**

*2019.*

### **Scholarship for exceptionally gifted students**

*Ministry of Education, Science and Technological Development*

**Belgrade, Serbia**

*2014 – 2019.*

### **Republic competition in Serbian language and culture**

*3rd place*

**Tršić, Serbia**

*2014.*

### **Republic competition in Serbian language and culture**

*2nd place*

**Tršić, Serbia**

*2013.*