



# András Schmelczer

andras@schmelczer.dev 

Budapest, Hungary 

13 February 1999 

+36 20 920 6000 

## Introduction

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Starting the final semester of my Computer Engineering B.Sc. programme, I am beginning to realise that curiosity and the desire to learn are my greatest motivators. Although my interests span across diverse areas, I aspire to apply and integrate most of these fields within my projects. I enjoy undertaking and solving challenging problems regardless the domain. Lately, I have become especially interested in computer graphics.

## Projects

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Discover my previous projects, such as creating a video game on an ATtiny85 or simulating metropolitan traffic. Just follow the link below.



<https://schmelczer.dev>

## Professional Experience

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February 2020 –  
September 2020

### Software Engineer ALLWIN Informatika Kft.

- Built a multitude of microservices (Web APIs and Azure functions) concerning image processing with C# and Python; configured and orchestrated their K8s deployment.
- Gained experience building numerous CI/CD pipelines with Azure DevOps.

April 2019 –  
October 2019

### Full Stack Engineer Avatao Innovative Learning Kft.

- Created various interactive tutorials and quizzes about safe coding in C#, particularly ASP.NET.
- Contributed to the development of the company's leading product. Worked primarily with Flask (Python) and Angular.
- Single-handedly built a framework to innovatively assess expertise in a given field and effectively developing these kinds of assessments.

July 2018 –  
March 2019

## Software Developer

### The Laboratory of Cryptography and System Security (CrySyS)

- Created a 3D server-client application (using Unity) running a simulation of a city with a focus on its traffic.
- Made a simplified mathematical simulation of a nuclear facility. The computations were done with NumPy and a REST API was provided by Flask. An aesthetic (online) front end was also part of the project, as well as an editor made with JavaFX to enable the customisation of this facility.

## Education

2017 –

### Computer Engineering B.Sc.

#### Budapest University of Technology and Economics

- Mentor of web development at [Károly Simonyi College for Advanced Studies](#) for two semesters and Teaching Assistant for an embedded operating systems laboratory practice last semester.
- Received an [iMSc award](#) every semester for outstanding performance in various projects and 4.99 cumulative grade point average.
- Enrolled in software development specialisation track for the last three semesters, which heavily focuses on data-driven programming, object-oriented programming, and 3D graphics.

#### Languages

- Hungarian
- English C1 Certificate (*IELTS Academic 8.0*)

#### Hobbies

- Photography
- Cycling
- Web development
- Microcontrollers

#### Other

- Driving license

2013 –  
2017

### Student

#### University of Pécs Babits Mihály High School

- Graduated with a secondary school diploma with straight As. Took an advanced exam in physics.