András Schmelczer

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13 February 1999

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Introduction

Starting the first semester of my Computer Science MSc 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

Discover my previous projects, such as implementing a 2D ray tracing library or creating a video game on an ATtiny85. Just follow the link below.

https://schmelczer.dev

Professional Experience

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 secure 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 develop 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

| 2021 – | **Computer Science MSc** |
| | **Leiden University** |

- Pursuing the Advanced Computing and Systems specialisation.

| 2017 – 2021 | **Computer Engineering BSc** |
| | **Budapest University of Technology and Economics** |

- Graduated with honours.

- Received an iMSc award every semester for outstanding performance and 4.99 cumulative grade point average.

- Enrolled in the software development specialisation track for three semesters, which heavily focuses on data-driven programming, object-oriented programming, and 3D graphics.

- Was mentor of web development at Károly Simonyi College for Advanced Studies for two semesters and Teaching Assistant for an embedded operating systems laboratory practice for one.

Languages

- English C1 Certificate *(IELTS Academic 8.0)*

- Hungarian *(native)*

Hobbies

- Photography

- Cycling

- Web development

- Microcontrollers

Other

- Driving license