Andras Schmelczer

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The Hague ◎

I'm passionate about designing and building large-scale systems, especially in the context of NLP. I'm excited to take my part in connecting people and providing them with AI/ML solutions along with the necessary integrations, which were unimaginable even a decade ago.

With a master's degree in Computer Science and more than six years of professional software engineering experience, I can confidently undertake any challenge.

Professional experience

Feb 2022 – *present*

Chief Technology Officer
ScoutinScience B.V.

– Assessed and identified technological opportunities and threats

– Architected a cohesive platform for merging all our projects

– Assembled a team and led the development of this platform

– Streamlined processes and strengthened security across the organisation

Feb 2021 – Feb 2022

Senior Software Engineer
ScoutinScience B.V.

– Researched, designed, and continuously improved an explainable NLP pipeline for ranking academic publications based on their tech-transfer potential

– Gathered manual annotations from experts and developed explainable ML models for aspect-based summarisation of scientific papers

– Implemented business logic (ASP.NET, EF), maintained databases (PostgreSQL, MongoDB), and orchestrated deployments (GitHub Actions, K8s)

Jan 2020 – Oct 2020

Software Engineer
ALLWIN Informatika Kft.

– Built a multitude of microservices for an accessible AI/ML platform

– Implemented ML glue code and business logic in Python and ASP.NET

– Configured CI/CD pipelines using Azure DevOps and a large-scale deployment with Kubernetes

– Gained valuable experience in the research, integration, and production-ready deployment of AI/ML systems with a focus on image processing

Apr 2019 – Nov 2019

Full Stack Developer
Avatao Innovative Learning Kft.

– Created interactive tutorials and quizzes about secure .NET coding

– Acquired a great deal of experience working with Flask and Angular

– Created a full-stack app for innovatively assessing Cybersecurity expertise

Jul 2018 – Apr 2019

Software Developer
The Laboratory of Cryptography and System Security (CrySyS)

– Created an online 3D city simulation with Unity exposing an API for interacting with its traffic lights which influences the drivers

– Devised a mathematical simulation of a nuclear facility's cooling system (with a GUI and editor) by designing two graph algorithms

– NumPy, SciPy, Flask, HTML5, JavaFX

Oct 2016 – Apr 2019

Web developer
Freelance

– Designed, built, and successfully delivered various websites and full-stack applications

– JavaScript, TypeScript, CSS, SASS, Linux

Education

2021 – 2022

Computer Science MSc — cum laude (8.8 / 10)
Leiden University

– Completed the Advanced Computing and Systems specialisation focusing on distributed and cloud computing

– Developed a strong background in AI/ML through my electives: image processing, information retrieval, reinforcement learning, modern game AI, and text mining

– Guided groups during the orientation weeks for two years & mentored students helping them pursue their academic goals and adjust to their new lives abroad

2017 – 2021

Computer Engineering BSc — summa cum laude (4.99 / 5)
Budapest University of Technology and Economics

– Completed the software development specialisation track, which heavily focused on DDD, OOP, and 3D graphics and Agile development and organisational practices

– Led the development team at Károly Simonyi College for Advanced Studies for two semesters

– TA for the Embedded Operating Systems laboratory practice and RA for Databases

Hobbies

– Cycling

– Coffee

– Badminton

– Photography

– IoT & shaders

Certificates

– English C1
  IELTS Academic 8.0

– Driving license