



Barbara Simon

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Work: Bécsi street 96/b., 1032 Budapest (Hungary)

WORK EXPERIENCE

Laboratory technician

Óbuda University [01/03/2023 – Current]

Address: Bécsi Street 96/b I-II. floor, 1034 Budapest (Hungary)

- gesture detection research for individual with diabetes using artificial intelligence
- research on physical activity in individual with diabetes using artificial intelligence

EDUCATION AND TRAINING

Computer Engineering Bsc

Óbuda University [01/09/2020 – 08/01/2024]

Address: Bécsi Street 96/b I-II. floor, 1034 Budapest (Hungary)

- Software design and development
- Computer networking
- Digital electronics
- Analysis and discrete mathematics
- Operating systems
- Modern architectures

Specialization: Artificial Intelligence

Computer Engineering MSc

Óbuda University [02/2024 – Current]

Address: Bécsi Street 96/b I-II. floor, 1034 Budapest (Hungary)

- Software development for parallel architectures
- Computer vision and graphics
- Cloud based IoT and Big Data platforms
- Systems and control theory
- Applied mathematics

Specialization: Cyber-medical systems

LANGUAGE SKILLS

Mother tongue(s): Hungarian

Other language(s):

English

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Advanced knowledge of C# / Advanced knowledge of Python / MS Office advanced knowledge / Operating System knowledge / Intermediate knowledge of artificial intelligence technologies / Agile SCRUM / Pytorch, Tensorflow / Python, Scikit-Learn, Numpy, Matplotlib / Advance knowledge in Machine Learning and Deep learning / Natural language Processing / Frameworks & Libraries: OpenCV, Sci-kit learn, NumPy, Pandas, SciPy, Matplotlib. / Microsoft Office

PUBLICATIONS

[2023]

Translating Hungarian language dialects using natural language processing models

IEEE 23rd International Symposium on Computational Intelligence and Informatics (CINTI 2023)

[2024]

Data collection studies for the better understanding of factors in type 1 diabetes management

IEEE 11th International Conference on Computational Cybernetics and Cyber-Medical Systems ICC 2024

[2024]

Physical activity detection for diabetes mellitus patients using recurrent neural networks

MDPI SENSORS Paper

PROJECTS

[03/2023 – Current]

Research for individual with diabetes using artificial intelligence

[01/2023 – Current]

Hungarian medical assistant chatbot

HONOURS AND AWARDS

[02/2024] Óbuda University

Óbuda Scholarship

[09/2023] Óbuda University

National Higher Education Scholarship

[10/2023] Óbuda University

Scientific Student Conference scholarship