Nándor Bándi

Personal Information

Zalau, Romania

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Researchgate: https://www.researchgate.net/profile/Nandor-Bandi Linkedin: https://www.linkedin.com/in/n%C3%A1ndor-b%C3%A1ndi/

PROFESSIONAL EXPERIENCE

10/2020-present Software Developer, R&D

Softech, Cluj-Napoca

Development of services adhering to an Event Driven Microservice Architecture

Kafka, Spring Cloud Stream, Functional Reactive Programming, MSK, MongoDB, K8S

R&D of a domain specific language for a reactive rule engine

R&D of a digital signature and certificate access library for macOS

C/C++, Objective-C, OpenSSL, GTest

10/2019-06/2020 Diploma thesis collaboration

Softech, Cluj-Napoca

Collaborated on devising a volume estimation method based on computer vision techniques. I was responsible for the underlying R&D of the method and the design of the computer vision pipeline.

07/2019–09/2019 Computer Vision R&D intern

Softech, Cluj-Napoca

R&D of a picture based volume estimation method. I gained experience regarding 3D reconstruction, stereo-vision, mathematical optimization, OpenCV, CMake, Docker, ActiveMQ, Computer Aided Geometric Algorithms, Point Cloud Library and Android application development.

02/2018-06/2019 Java mentorship program

Softech, Cluj-Napoca

Java OOP, Awt, Swing, Networking, MVC, JCF, Stream API, Logging, Reflection, JSP,

Tomcat, JDBC, i18n, git, Gradle, JPA, Hibernate, Spring

EDUCATION

2020 - 2022 MSc, High Performance Computing and Big Data Analytics

Babes-Bolyai University, Cluj-Napoca

Thesis: Hybrid sparse nonlinear optimization on the GPU

Transpilation of symbolic objective function definitions to their automatically differentiable representation in CUDA

Extended the Differential Evolutionary approach with local search (GD, LBFGS)

Optimization for sparse problems

Approach outperforms a state-of-the-art method (DV-Hop) for the SNLP

2017-2020 BSc, Computer Science

000060

Babeș-Bolyai University, Cluj-Napoca

Thesis: Image-Based Volume Estimation Using Stereo Vision

Valedictorian title

PUBLICATIONS

NÁNDOR, B., AND NOÉMI, G. A hybrid differential-evolution-based approach to the sensor network localisation problem. In Journal of Memetic Computing (in press)
NÁNDOR, B., TUNYOGI, R.-B., SZABÓ, Z., FARKAS, E., AND SULYOK, C. Image-based volume estimation using stereo vision. In 2020 IEEE 18th International Symposium on Intelligent Systems and Informatics (SISY) (2020), pp. 000055-

Honors and awards

2021	Participated at the Hungarian National Students' Scientific Conference Graphics & Computer Vision Section
2020	First prize at the 23 rd Transylvanian Students' Scientific Conference Theoretical methods, experiments, simulations & Mathematics section Presented the results of my research as an R&D intern at Softech
2020	Valedictorian title Graduated first of my undergraduate class

Trainings

2021	Functional Programming in Scala Capstone EPFL, Coursera
2020	Big Data Analysis With Scala and Spark EPFL, Coursera
2019	Central – European Functional Programming School ELTE Faculty of Informatics, Budapest Task Oriented Programming for the Internet of Things, Green Software, B-Method

LANGUAGES

Romanian (native)
Hungarian (native)
English (CAE: C2 Proficiency)