

# Curriculum vitae

## PERSONAL INFORMATION

**Kovács György**

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## WORK EXPERIENCE

01/2020–Present

**Software Developer**

DevNest, Cluj-Napoca

10/2017–12/2019

**Scala Developer**

Itivity (former Ullink), Cluj-Napoca

- worked in a team to design and build a brand new Smart Order Router for electronic trading
- used Scala with the Cats library to work in a pure functional way with Akka Actors

06/2017–09/2017

**Scala Developer Intern**

Ullink, Cluj-Napoca

- helped in a team working on a brand new Smart Order Router in Scala
- tools used: Jira, Gerrit, Gradle

07/2016–08/2016

**C# Developer Intern**

Altran Romania, Cluj-Napoca

- Xbox One development using C#
- game development using Unity Engine

## EDUCATION AND TRAINING

2017–2019

**MsC**

Technical University of Cluj-Napoca, Cluj-Napoca

Faculty of Automation and Computer Science, specializing in Artificial Intelligence and Computer Vision.

Thesis: Platformă pentru detecția anomaliilor în serii de timp

2013–2017

**BSc**

Technical University of Cluj-Napoca, Cluj-Napoca

Faculty of Automation and Computer Science, specializing in automation.

Studying for Bachelors Degree

Thesis: Optimal Control of a Communicating Mobile Robot

2009–2013

**Highschool**

Liceul Teoretic "Bathory István", Cluj-Napoca

## PERSONAL SKILLS

**Mother tongue(s)**

Hungarian, Romanian

Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
German	C1	C1	C1	C1	C1

Das Deutsche Sprachdiplom der Kultusministerkonferenz

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user  
Common European Framework of Reference for Languages - Self-assessment grid

- Job-related skills**
- proficiency in languages Scala, Haskell, Elm, Python, Java, C# and C/C++  
I invite the reader to visit my Github page [github.com/KovaxG/](https://github.com/KovaxG/)
  - used mathematical languages such as Matlab or Mathematica
  - experience working in teams using both GIT and SVN

## ADDITIONAL INFORMATION

### Groups

#### Cluj.FP

Co-Organizer for the Functional Programming Group in Cluj-Napoca.

#### Research in Cluj

Regular attendee and designated chair-man.

### Presentations

2017

#### University

- PointNet: Deep Learning on Point Sets for 3D Classification and Segmentation
- Chemistry: The Natural Programming Language
- Modelling Culture in Intelligent Virtual Agents
- Vulnerabilities of the WPA2 Security Protocol

2018

#### Functional Programming in Cluj

- Transformers: Monads in Disguise
- Do you die every time you change?
- Zippers, when you really want to point at something

2019

#### IT Days 2019

- How to Change the World using Functions

### Interests

- Functional Programming
- Artificial Intelligence
- Philosophy
- Mechanical Keyboards

### Projects and Contests

2013

#### Prosomo

A 2D minecraft inspired game developed in C++.

2016

**Battlelab Robotica**

Participated in a team of 4 people in the contest organized by the University involving sumo Robots.

**AQTR IOT Student Challenge**

Participated in a team of 4 people in the Internet of Things themed contest, we submitted a setup to monitor traffic on the roads to make more informed decisions in order to find parking and reduce traffic.

**Publications**

**Technical**

"Monad Transformers"

Today Software Magazine, November 2018

"La fel, dar diferit"

Today Software Magazine, April 2019

**Academic**

"A Taxonomy and Platform for Anomaly Detection"

Gheorghe Sebestyén, Anca Hangan, Czakó Zoltán and Kovács György,

2018 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR), pp. 1-6, 2018

"Platform for Anomaly Detection in Time-Series"

Gheorghe Sebestyén, Anca Hangan, Kovács György and Czakó Zoltán

Presented at the XXXIV. Kandó Conference, Budapest, 2018

"Evaluation Metrics for Anomaly Detection Algorithms in Time-Series"

Kovács György, Gheorghe Sebestyén and Anca Hangan

Presented at the 7th International Conference on Mathematics and Informatics, Târgu Mureş, 2019

**Workshops**

**First steps with functional programming and Scala**

Held a 2 day workshop on using Scala as a functional programming language with 15+ attendees, sponsored by DevNest.

<https://www.meetup.com/Cluj-fp/events/268140892/>

**First steps with Haskell and functional programming**

Also held a 2 day workshop on using Haskell with 10+ attendees, sponsored by DevNest.

<https://www.meetup.com/Cluj-fp/events/268850371/>