

# ÁRON KATONA

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## EDUCATION

M.Sc. in Artificial Intelligence and Computer Vision

Technical University of Cluj-Napoca

October 2022 – July 2024

B.Sc. in Computer Science

Technical University of Cluj-Napoca

October 2018 – July 2022

- GPA: 9.7/10
- Valedictorian of the faculty
- Diploma thesis: *Automatic fact checking with explanations*
  - Developed the FACE system.
- Submitted paper to SYNASC 2022

## WORK EXPERIENCE

Software Engineer

Cloudflight Romania

July 2021 - August 2021 Cluj-Napoca

- Fullstack application development with Java and VueJS

Android Developer Intern

Garmin

July 2020 - October 2020 Cluj-Napoca

- Studied Android development in Kotlin
- Worked on the ActiveCaptain app.

## COURSES

C and Win32 programming course

Bitdefender

October 2018 - April 2019 Cluj-Napoca

- I was among the five prizewinners.

## CERTIFICATES

Oracle Certified Professional: Java SE 11 Developer

## PROJECTS

### FACE

- An explainable, automatic fact checker.
- Provides explanations in natural language for any detected entailment and contradiction between an input text and a trusted knowledge base.

Description Logic

OWLApi

### Translator from propositional logic to Boolean ring arithmetic

- Builds a parse tree and replaces the operators based on the rules described in the article with DOI: 10.1080/07468342.2020.1698931

Python

SymPy

Logic

### 3D Chessboard and Piece recognition

- Detects a real chessboard on a digital image, classifies each piece, visualizes the state of the board in a standard 2D format.
- Worked in a team of two.

OpenCV

Tensorflow

C++

Image Processing

### Energy Consumption Monitoring Platform

- A platform for monitoring the energy consumption of electronic devices.
- Distributed system with both synchronous and asynchronous communication

RabbitMQ

GRPC

Websocket

Rest

Angular

Spring Boot

Kotlin

### Tatooine

- Presentation of a Star Wars inspired 3D scene using OpenGL
- Lightning, shadows, object and camera animation

OpenGL

Computer Graphics

C++

## CONTESTS

- ACM SEERC 2020, 2021: participant
- Google Hash code 2020: My team was ranked in the top 5% (out of 1000+ teams)
- Olympiad in Informatics 2018: 2nd place at county level. Represented my county at the national level.

## SOFT SKILLS

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### Teaching:

- For 8 years I've been leading a **group of scouts**, regularly teaching them based on the scout methodology, and organizing events for them.
  - In 2021 I was a teacher in a **computer science group** in my high school, where we had weekly lessons about algorithms, programming and technology.
  - Completed the **first pedagogy module**.
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### Language:

Hungarian, Romanian, German (A2/B1, DSD), English (C1, LCCI)

## INTERESTS

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### Interested in:

- Solving challenges and puzzles
- Engineering
- New technology
- Logic in AI

## TECHNOLOGY

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**Languages:** Kotlin, Java, C, C++, Python, SQL

**Frameworks:** Spring Boot, Angular, Android

**Tools:** Linux, Docker, Maven, Gradle, Gitlab-CI