ÁRON KATONA

Engineering student with passion to technology

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🎓 EDUCATION

B.Sc. in Computer Science
Technical University of Cluj-Napoca

📅 October 2018 – July 2022

- GPA: 9.6/10 - *Academic Performance Scholarship recipient*
- Software

  | Data Structures and Algorithms (10) | Operating Systems (10) |

  | OOP (10) | Databases (10) | Computer Graphics (10) |
- Mathematics

  | Mathematical Analysis I and II | Linear Algebra |

  | Statistics and Graph theory | Numerical Methods (10) |
- Hardware

  | Digital System Design | Computer Architecture (10) |

  | Analog and Digital Circuits (10) |

💼 WORK EXPERIENCE

Android Developer Intern
Garmin

📅 July 2020 - October 2020 ⚲ Cluj-Napoca

- Studied Android development in **Kotlin** by creating small learning apps
  - lifecycle, navigation, MVVM architecture, Retrofit, Room DB
- Studied the changes in **Android 11** and their effects on the **ActiveCaptain** app.
  - Presented the issues to the team
- Solved 15 issues and created small features.
  - Established a communication between the UI and a background service by using Broadcast, LiveData and Intents.

| Android | Kotlin | Gradle | Git | Gerrit | Jira |

📖 COURSES

Developing Android Apps with Kotlin
Udacity, Google

📅 July 2020 ⚲ Online

Java course
Google Digital Workshop

📅 March 2019 - May 2019 ⚲ Cluj-Napoca

C and Win32 programming course
Bitdefender

📅 October 2018 - April 2019 ⚲ Cluj-Napoca

- I was among the five prizewinners.

💡 PROJECTS

Digital Empire
- Full stack software as a service application with integrated payment.
- Created from scratch
- Worked in a **team of two**

| MVC | CakePHP | JQuery | MySQL |

Message App
- A command line client-server chat application
- Clients can register, log in, send messages or files to other users, list logged in users and see message history.
- Used thread pools and synchronizations.

| C | Win32 | Multithreading |

Timer
- Timer and stopwatch circuit with pause and increment buttons.

| VHDL | FPGA |

Line follower robot
- Arduino robot that follows a black line.

| C++ | Arduino | Electric circuits |

Fast food webshop
- Menu and checkout pages of a restaurant.
- Demo project for learning Angular and Spring.

| REST | Java | Spring | Angular |

❤ INTERESTS

My greatest passion is **engineering**
- To **create efficient and well-tought products**
  - Efficient algorithms
  - Designing SOLID software
  - Electric circuits that help in everyday life
- To **solve (real life) problems** by *understanding* the process behind them.

I'm also passionate about **(new) technology**
- I like to **try them out**: self hosting apps, learning programming languages
- Participate regularly in **workshops: GDG Cluj-Napoca**, Tech events in Cluj-Napoca

🗨 SOFT SKILLS

Leadership and organization skills:
- I am one of the leaders of my scout team. Every year we plan and coordinate a **scout camp**, having around *100 participants*.
- Completed a national **scout training** focusing on leadership and teaching.

Teaching skills:
For 7 years I've been meeting with a **group of scouts** regularly, and teach them by applying the "learn by doing" principle. They are now 12-14 years old.

Communication skills:
Volunteered at the *Festival of Young Artists Bayreuth* (Germany) in August 2018. I assisted in the logistics of the event by which I had the possibility to *work in a team* with other volunteers from *all part of the world*.

Language skills:
Hungarian, Romanian, German (A2/B1), English (C1)

🔧 TECHNICAL SKILLS

- Good **problem solving** and **deduction** skills.
- Good **mathematical background**.
- Acquired skills in **unit testing** through the projects I made.

🏆 AWARDS

- **Google Hashcode 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.

🖥 SKILLS

Languages and frameworks

Java	●●●●●
C	●●●●●
C++	●●●●●
Kotlin	●●●●●
Android	●●●●○
SQL	●●●●○
VHDL	●●●●○
Python	●●●○○
Javascript	●●●○○
Angular	●●●○○
Spring	●●●○○

Tools

Linux	●●●●●
Maven	●●●○○
Docker	●●●○○