

# ÁRON KATONA

Engineering student with passion to technology

@ katonaaron01@gmail.com

📍 Cluj-Napoca, RO

🌐 github.com/katonaaron



## 🎓 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**, where around *100 children* participate.
- 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.
- Founding member of a **computer science group** in my high school where we teach the pupils regularly about algorithms, programming and technology.

### 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	● ● ● ● ● ●