

# Robert-Iulian Coconu

+40-731-864-888 | [robert.coconu@gmail.com](mailto:robert.coconu@gmail.com) | [LinkedIn](#) | [GitHub](#)

## EDUCATION

---

### University POLITEHNICA of Bucharest

*Faculty of Automatic Control and Computer Science*

Bucharest, Romania

*Aug. 2019 – May 2023*

- Relevant Courses: Object Oriented Programming, Computer Programming, Data Structures and Algorithms, Numerical Methods, Introduction to Operating Systems
- Cumulative **GPA: 3.83/4**

## EXPERIENCE

---

### Volunteer Teaching Assistant

*Computer Science College*

Sep. 2020 – Feb. 2021

*Bucharest, Romania*

#### *Computer Programming Course*

- Reviewing student's assignments in order to help them further develop their skills by pointing out bad practices and providing solutions when needed
- Helping first year students learn the basics of programming in C
- Acquired Teaching Skills, Communication Skills and Time-management Skills

## PROJECTS

---

### CUDA Box Collision Resolution | C++, OpenGL, CUDA

- Collision detection between box-box and box-plane based on Axis Aligned Bounding Box
- Implemented Physics for Box objects such as gravity and friction
- Leveraging the higher capabilities of GPU over CPU for parallel computing using CUDA

### Travel Journal App | Java, Android Studio

- Implemented dynamic list of trips resulting in the possibility of creating, deleting and updating a trip
- Saved data in local database using Room, a persistence library that provides an abstraction layer over SQLite
- Provided a pleasant interface using Material Design components

### Page Ranking for Text Files | Java

- Simulator of a page ranking system used by a search engine
- Obtained a method of ranking text files by analyzing word proximity and number of words matching the input
- Provided a GUI using Java Swing

### Temperature Controlled Fan - Arduino | C++

- The fan spins faster proportional to the temperature thus providing the PID Cooler functionality
- Added an LCD screen that displays the temperature of the room as well as the intensity at which the fan is spinning

## TECHNICAL SKILLS

---

Experienced : **Java, C/C++, MATLAB**

Prior experience : **Python, JavaScript, HTML/CSS, Node.js**

## LANGUAGE SKILLS

---

**Romanian:** Native

**English:** Advanced

## SOFT SKILLS

---

**Teaching Skills and Time Management Skills:** Helping first year students understand programming concepts and adapting schedule in order to review their assignments

**Teamwork :** Worked alongside experienced programmers in hackathons and programming related projects