Robert-Iulian Coconu

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EDUCATION

University POLITEHNICA of Bucharest   Bucharest, Romania
Faculty of Automatic Control and Computer Science   *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   Sep. 2020 – Feb. 2021
Computer Science College   *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 Detection | *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