

Sabjel Pasha

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TECHNICAL SKILLS

Languages: Java, C++, HTML/CSS, ARM Assembly, R, LaTeX, Processing

Frameworks: JUnit, SDL/SDL2

Developer Tools: Git, Visual Studio Code, Eclipse, Emacs, TMC Beans, R Studio, Processing

EDUCATION

Trinity College Dublin

Aug. 2021 – Present

Bachelor of Arts in Computer Science, Minor in Geography

Dublin, Ireland

Relevant Modules

- Data Structures and Algorithms, Intro to Programming, Intermediate Programming, Intro to Computing, Programming Project, Statistical Analysis, Mathematics.

PROJECTS

Space Object Project | *Processing, Java, SmartSVN*

Jan 2022 – Mar. 2022

- Developed an application to explore data relating to artificial space objects, such as satellites or debris.
- The data is read in from a public dataset from the General Catalog of Artificial Space Objects
- Sorted the objects from a .tsv file into arrays based on the mass, launch dates, current status, country etc.
- Implemented an interactive GUI which can be used to search for and neatly display space objects launched at the requested date, from a data set of 50,000 space objects
- Implemented a function which helps visualise the mass / altitude of the space objects by displaying objects within a specified altitude and drawing them on the screen relative to their real mass.

Sorting Algorithm Visualiser | *C++, SDL/SDL2, Visual Studio Code*

Sep. 2022 - Sep 2022

- Developed a program that visualises an insertion sort algorithm in C++.
- Implemented SDL/SDL2 library to display the graphics via OpenGL.
- Creates an array with 100 randomly generated integers on each run.
- Each number in the array is represented as a vertical rectangle of relative height.
- Each step of the sorting algorithm is animated and the user can watch as the rectangles are sorted according to size and finally displayed in order.

EXPERIENCE

IT Student Advisor

Sep. 2022 – Present

IT Services, Trinity College Dublin

Dublin, Ireland

- Responsibility for College Network connection support for student owned PCs, laptops, and mobile devices.
- Providing general support and guidance on IT services to Trinity College students both on campus and at remote sites.
- Provision of advice and assistance with commonly used software applications at Trinity and for anti-virus and malware protection.

EXTRACURRICULAR SKILLS

- Java Programming Course on mooc.fi
- Fluent in English and Albanian
- Electric Guitar
- Building PCs