Omar Nasr

Software Engineer



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github.com/BlueLort linkedin.com/in/Lort/ bluelort.github.io/Profile/



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About me —

Software Engineer that is passionate about science and technology especially Computer Graphics , Game Development & Robotics.

Skills ——

C++

C

Java

OpenGL

Unreal Engine

Web Development

Unity

[Skill rate is determined on how i am comfortable with certain technology.]

Education

2016-2021 Faculty of Engineering

Alexandria University

Computer & Communications Department. GPA 3.16

Awards

2018 5th Place in UGVC2018 with MindCloud.

2018 4th Place in Minesweeper2018 with MindCloud.

Experience

2017-Pres. Software Engineer at MindCloud

Technical Team

University Robotics Team.

Projects

Jul-2019 Minesweeper Grid Visualization Web Development [NodeJS ThreeJS]

NodeJS application to Visualize how the mines are put into the grid in

Minesweeper robotics competition in Real-Time.

May-2019 SIC/XE Assembler

Java JavaFX

Two Pass Assembler that translate SIC/XE to obj code.

-You can load your code file or you can write it directly into the Editor.

-After Successful Assemble the user can check the output from the 'As-

semble' menu like the ListFile and the ObjFile.

Mar-2019 Lort Renderer

C++ SDL

Optimized Software Renderer that written in an way to get high FPS.

-Fixed Point arithmetic.

-Perspective correct texture mapping.

-Lighting and Shadows

-OBJ Models Support.

-SIMD Maths.

Oct-2018 GameX Level Editor

C++ OpenGL SDL CEGUI

User-Friendly Level Editor that helps to create 3D Environments.

-Stable For OBJ models [Supports other formats]

-config. file that enables flexibility for the user.

-General GLSL inputs that can be used for any user made GLSL files.

-Navigation mesh That helps to find walk-able areas of the map.

-Relatively good graphics with Directional & Point Light Support along with Normal mapping in Tangent Space, Reflective water surface and Shadows.

Jun-2018 Serial Reader

Java JavaF

Desktop Application that was made for Arduino ,reads from the serial in certain format and print them on the UI.

May-2018 Maze Runner

aze Rufffer

Java JavaFX

Game that challenges the player to finish a maze.

-Flipbook animations on JavaFX Canvas.

-Different Design Patterns were used.

-Particle effects, Camera and other challenging game objects.

Apr-2018 Text Autocorrect

C Java JavaF

Uploads custom dictionary to an auto-balancing tree that is used to suggest correct words.

-Two versions AVL Tree[C],RB Tree [Java JavaFX]

Mar-2018 Paint

Java JavaFX

Paint Software like the MS Paint using JavaFX Canvas.

-Drag & Drop Shapes. -Different Design Patterns were used.

Feb-2018 Asteroids 1979

C++ OpenGL

Clone of 1979 Asteroids retro game.

Nov-2017 Mine Sweeper

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Clone of Minesweeper Game.