Mohamad Ziad Alkabakibi

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EDUCATION

INNOPOLIS UNIVERSITY

Aug 2018 - Aug 2022
SOFTWARE ENIGNEERING MASTERS
Aug 2022 - March 2023

LINKS

Blog: thesharpowl.github.io Github: TheSharpOwl

LinkedIn: mohamad-ziad-a-999771118

YouTube: **TheSharpOwl**

COURSES

Computer Graphics
Concurrent Programming
Scrum and Agile
Compiler Construction
Operating Systems
Functional Programming
Distributed Systems
Requirements Engineering
Managing Software Development

SKILLS

PROGRAMMING

Proficient:

C++ • C# • C • Git

CMake • C++ Boost • Python Linux • Docker • OpenGL

Familiar:

Qt • GoLang • Javascript • Java SQL • Unreal Engine • Unity

React (ReactJS)

LANGUAGES

Arabic: Native English: Fluent Russian: Intermediate

AWARDS

- Syrian Informatics Olympiad: Bronze Medal: top 3/100 (2015)
- Damascus ACM programming contest: Bronze Medal: top 3/50 (2017)
- Asia Pacific Informatics Olympiad: Honorable Mention (2017)

EXPERIENCE

ROADAR | C++ DEVELOPER

SOFTWARE ENGINEERING BACHELOR April 2021 - Present | Remote

- Embedded systems and Computer Vision for detecting road accidents and ensuring safety on the road Using C++, CMake, OpenCV and OpenVino.
- Implemented detection when breaking the speed limit on the road, improved detection of speed decrease, added unit tests and fixed communication between **Python** system test script with **Kafka**
- Ported the project to **Windows** with **MSVC** compiler after being working only with **Debian**.

INNOPOLIS UNIVERSITY | TEACHER ASSISTANT

August 2022 – December 2022 |

- Taught 1st year bachelor students. Subjects include: C, Java, Object Oriented Programming and UML diagrams.
- 87% of students found the course useful, 88.96% found The course an overall success

NATIONAL CENTER FOR THE DISTINGUISHED | ALGORITHMS COACH

Sep 2015 - April 2017 | Damascus, Syria

- Tutored students for National Syrian Olympiad in informatics using C++, 6/10 were able to secure their spots in the top 10 across the country in 2016.
- Tutored 2 students who achieved 1st and 3rd ranks across the country in 2017 (one of them achieved a Bronze Medal in International Olympiad in Informatics).

PROJECTS

MIZU ENGINE | GITHUB | RESEARCH LINK

- C++ Direct3D 12 game engine (graduation project)
- Impelemented comparsion between Mesh shaders and other types

WONDERLAND | GITHUB | DEMO LINK

- Survival 2D game made using C++, irrKlang, SFML, nlohmann json, CMake.
- Wrote Animation, collision detection, support levels configuration using JSON files

ROLL CHAT BOT | GITHUB | TELEGRAM

- Chatbot made with Python using Microsoft's QnA framework
- Deployed on **Heroku** and using **REST API** to communicate with the QnA service

TRACKZAM STUDENTS TRACKER | GITHUB

- Made with C#.NET 5 (Client) and Python (Server) for lecturer's purposes.
- Implemented the client's (Key-Mouse logger and User accounts mechanisms) in addition to Windows and Errors Managers calling C functions from C# using dll files

FOOBAR COMPILER | GITHUB

Imperative Language compiler in C++17 that translates to LLVM machine code for Compiler Construction course.