

Walid Chtioui

Computer Science Student

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Education

- 10/2022 – Present **M.Sc. Computer Science, University of Passau**, Passau
Pursuing a double Master's degree in Computer Science.
- 09/2020 – Present **Engineering Diploma, National School of Computer Science**, Tunis, *Top 7%*
Relevant coursework: Software Development, Operating Systems, Software Design Methodology
- 09/2018 – 06/2020 **Preparatory Institute for Engineering Studies, Tunis, Top 7%**
Relevant coursework: Analysis, Linear Algebra, Physics, Control Theory, Probability

Practical Experience

Freelance

- 12/2021 – 12/2022 **Unity3D Developer**, Unity3D | C# | WebGL | Git LFS | Blender | GIMP
Created and implemented a highly-customizable, 3D-immersive virtual exhibition environment for WebGL.
- Implemented various design patterns for enhancing project scalability, modularity and debuggability.
 - Implemented graphics, code and 3D-modeling optimization techniques for flawless user experience on single-threaded WebGL environment.

Internships

- 06/2022 – 08/2022 **ML Developer**, PPR Technologies inc., Python | Keras | KerasTuner | Cookiecutter
Implemented an ML pipeline for ECG health data.
- Worked in a team of two developers to build a small, extensible and AutoML-based pipeline to automatically determine which DL model performs best on ECG time-series data.

Computer skills

Programming Languages	C#, Python, C++, C
Technologies	Unity3D, .NET, Git LFS, Keras, SDL2
Data Management	MySQL, UML
Software and Tools	Blender, Visual Studio, GIMP
PM Tools	Trello

Projects

- 12/2022 – Present **Spawn Editor**, Unity3D | C# | UI Toolkit | Git
Wrote a Unity3D custom editor inspector script for editing spawn positions.
- 11/2021 – 06/2022 **DIY Quadcopter**, ESP32 | C++ | PlatformIO
Assembled a quadcopter and a remote controller, wrote a flight controller code using ESP32 microcontroller.

06/2021 – 09/2021 **Labyrinth Game**, SDL2 | C++ | Make
Wrote and designed a multiplatform, 2D maze-based game that uses a backtracking algorithm for random maze generation.

Languages

Arabic Mother tongue, C2
English Fluent, C1
French Fluent, C1

Extracurricular Activities

04/2021 – 04/2022 **Aeronautical Manager**, *ENSI Robotics Association (ARE)*

- Participated in the organization of a national robotics event *RoboCup 4.0* with 2000+ participants.
- Taught free courses to 30+ members about embedded systems programming, control theory, version control and fundamental aeronautical concepts.
- Taught 20+ highschool students how to build and program line-follower robots.

Activities and Interests

3D Modeling, Robotics, Volleybal, PingPong, Football