

AGUSTIN JESUS DURAND DIAZ

Phone: +51 964341757 | Email: aduranddiaz@gmail.com | Lima, Perú

SUMMARY

Experienced and results-driven Senior Software Engineer with over 10 years of expertise in software and game development. Strongly focused on problem-solving and delivering high-quality code that exceeds project objectives. Possessing a passion for C++, computer graphics, and game engines, I have a proven track record of leading teams and contributing significantly to the development of various games using Unreal Engine in my recent jobs. Currently, I am undertaking a side project to develop a game engine from scratch, which has further enhanced my technical abilities and expanded my skill set. I am adept at working with cross-functional teams and have a keen eye for detail to ensure the seamless integration of different components in complex systems.

PROFESSIONAL EXPERIENCE

Tech Lead

Isoforce Games | 05/2022 - Present

- Lead the software team (gameplay): software design and code reviews.
- Design, implement, and test new gameplay features for a very important MVP.
- Technologies & Tools: Unreal Engine 5 (EOS, GAS, Networking), C++, Perforce, Rider.

Lead Software Engineer

DeadMonkey, Inc | 09/2021 - 05/2022

- Lead the software team: software design and management.
- Design, implement, and test new gameplay features.
- Technologies & Tools: Unreal Engine 4, C++, Rider.

Senior Software Engineer

BairesDev | 04/2021 - 09/2021

- Client: Miso Robotics.
- Senior C++/Python Engineer in a project related to robotics.
- Implemented and tested new Flippy features.
- Technologies & Tools: ROS, C++, Python, and Linux.

Senior L2 C++ Developer (Software Designer)

Globant | 11/2020 - 04/2021

- Client: Warner Bros Games (Unannounced Project).
- Implemented and tested rendering functionality for a UE4 plugin.
- Designed, implemented, and tested functionality for a crash reporting system.
- Technologies & Tools: Unreal Engine 4, C++.

Technology Lead

Infosys | 04/2020 - 11/2020

- Client: Verizon.
- Designed, implemented, and tested mediation apps (backend).
- Technologies & Tools: C++, Linux, Perl, SQL, Putty, Vim, Git & GitLab.



<https://github.com/VgTajdd/>



<https://vgtajdd.github.io/>



<https://www.linkedin.com/in/agustin-jesus-durand-diaz/>

Software Engineer

Bamtang Games (Concha) | 01/2016 - 03/2020

- Client: Transmin.
- Designed, implemented, and tested many features: 3D visualizer, statistics plots, DXF file loading, PDF report generation, etc.
- Technologies & Tools: C++, Qt, VTK, Assimp, Graphviz, SQLite, Python, etc.

Game Developer

Bamtang Games | 02/2012 - 01/2016

- Clients: Disney, Namco Bandai, etc.
- Designed, implemented, and tested gameplay features, UI, and tools in more than 10 successful video games for international clients using these technologies: AS3 (Flash), JavaScript (HTML5), and Haxe (OpenFL).
- Designed, implemented, and tested the map editor tool and gameplay features for the first video game developed in Peru for PS4 and Xbox: Power Rangers.

EDUCATION

Universidad Nacional de Ingeniería — Bachelor's Degree

- August 2007 - July 2012, Lima, Peru.
- Mechatronics Engineering (B.S. & Título Profesional)

LANGUAGES

- Spanish — Native
- English — Fluent
- French — Beginner
- Portuguese — Intermediate

COURSES

- Unreal Multiplayer Master: Video Game Dev In C++ Course | GameDev.tv | 2022
- C++ Design Patterns: Behavioral | LinkedIn Learning | 2021
- SOLID | Acámica & Udemy | 2021
- Unreal Engine Blueprint Game Developer Online Course | GameDev.tv | 2021
- Converting Blueprint to C++ | Epic Games | 2020
- An In-Depth Look at Real-Time Rendering | Epic Games | 2020
- C++ Best Practices for Developers | LinkedIn Learning | 2020
- C++ Advanced Topics | LinkedIn Learning | 2020
- More certifications on LinkedIn.

TECHNICAL SKILLS

- Software design experience
- Game Engines & Games Architecture knowledge
- Game Engine Architecture knowledge
- Problem-solving



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SOFT SKILLS

- Leadership experience
 - Planning and task estimation
 - Agile development (Scrum)
 - Communication between multidisciplinary teams
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TECHNOLOGIES

- Languages: C++|C|Python|SQL|JavaScript|Perl|C#|AS3|Haxe|GLSL
 - APIs & Libraries: Qt5|VTK|Assimp|Qwt|Graphviz|OpenGL (GLFW, GLEW, GLAD)|FMOD|OpenFL|OpenCV
 - Tools: Visual Studio|VS Code|Rider|Tortoise (Git & SVN)|CMake|Vim|Xampp
 - Version Control: Git|GitHub|GitLab|Subversion (SVN)
 - SO: Windows|Linux|macOS
 - Gaming: UE4 & UE5, GAS, PlayFab, EOS, GameLift, Perforce.
 - Other Tools: Jira, Confluence, Trello, ClickUp, Fibery.
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SIDE PROJECTS

- Univer Game Engine (private repository): Game engine written in C++ using OpenGL(GLFW), FMOD, ImGui, GLM, etc.
 - Plugin Manager: Cross-platform plugin manager developed in C++.
 - Dependency Injection Container: Cross-platform dependency injection container developed in C++.
 - Jumping Jack: First game created with my game Engine (Univer) in only 1 week.
 - Simple Raytracer: Simple raytracer developed using pure C++.
 - SpriteSheet Generator: Bin Packing algorithm (recursion & binary trees) using C++ & Qt.
 - NeuroEvolver: Neuroevolution software written in Python.
 - Chess Engine: Chess engine written in C++.
 - Cubeland: 3D Game developed in Unity.
 - Rubik's Cube Simulator: Simulation of Rubik's Cube written in Haxe.
 - Interview Problems: Interview problems solved in C++.
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COLLEGE PROJECTS

- Fruits and vegetables classifier: Implemented in C++ (Digital processing of images and/OpenCV).
- Robotic arm: Implemented using PIC16F877A and servo motors. Controlled by a computer program developed in C#.
- PID tuning using Genetic Algorithms: Implemented in C++, this program generates values for a PID controller using GA.



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