Bojan Lovrovic

Summary

Starting my 'career' at the age of ten when I wrote my first program in Logo I moved, driven by the burning desire to make a video game, to C#. After I made a couple of game engines, I switched to C++ which remains my primary language to this day. Over the years, I completed my MS, worked as a software engineer in game development

industry, media production industry, low level graphics programming and driver optimization.

Looking to secure a position in a software company, where I can hit the ground running, but still develop my current skill set further.

Experience

Samsung Electronics

LONDON, UNITED KINGDOM

Software engineer, Graphics

Sep '18 – present

Low-level graphics programming for Samsung's Android based devices.

The Future Group

Oslo, Norway

Software engineer, Graphics

Sep 17 – Sep 18

Was tasked with the implementation of the low-latency GPU-based pipe-lining tool to be used alongside UE4 to enable our researchers in creating various frame processing techniques, such as chroma-keying.

Little Green Men

Zagreb, Croatia

Software engineer, part time

Feb '16 – Jul '17

Worked closely with artists and QA team. Implemented path-finding for AI, added additional game states and wrote various shaders. Provided debugging, profiling and optimizing of the proprietary engine's C++ code.

Croteam

ZAGREB, CROATIA

Software engineer, intern

Apr 15 – Jun 15

Internship offered the opportunity to debug and refactor Croteam's Serious Engine, The Talos Principle and the Serious Sam games written in C++.

Education

University of Zagreb

ZAGREB, CROATIA

Masters degree in Computer Science

2015 - 2017

Completing this degree was balanced with employment at Little Green Men Games. Although playing with neural networks was part of the curriculum, main field of study was computer graphics.

Bachelors degree in Computer Science

2012 - 2015

Despite the broader approach, a lot of work was done in the field of computer graphics and physics simulation, in both, personal and university projects.

Publications

Rigid Body Joints in Real-Time Unified Particle Physics

2018

Proceedings of the Eurographics 2018 conference in Delft, Netherlands.

Projects

Starpoint Gemini Warlords

2017

A space simulation game developed by Little Green Men (multidisciplinary team made of more than 20 people) and released for Windows PC. (*Direct X 11, C++11*)

Virtual body ownership system

2017

System that supplements a skeletal model of a user in a virtual reality environment with animation, inverse and forward kinematics. (*C*++, *UE4*, *HTC Vive*)

Compiler

2015

From a C-like language into a mnemonic language. It had lexical, syntax and semantic analyzer. (Java)

Game engine

2013

Implemented features like cloth simulation, rigid body dynamics, traditional and procedural skeletal animation. This was combined with competitive graphics and Lua integration. (C++, Direct X 11, Lua)

Skills

Technical expertise: First language is C++, but also high familiarity with C, HLSL, Python, Lua, C# and Java. Techologies used through career include: DirectX APIs, OpenGL, Unreal Engine 4, Unity and TensorFlow. Version control system experience includes working with SVN, Git, Perforce and TFS. Favourite project management tool is Trello and favourite IDE is Visual Studio.

Traits: Tenacious problem solver. Ability to perform well under pressure. Works well in a team (pleasant and communicative). Curious.

Natural languages: English (full professional proficiency), Croatian (native proficiency).