Iakov Sumygin

London | <u>sumygin@gmail.com</u> | <u>github.com/yak32</u> | <u>twitter.com/yak32</u>

Summary

In my 18+ years of professional development experience, I shipped full featured user-facing products for millions of users on many platforms, from decade old CPUs to powerful modern devices. Winner of several world-wide programming and game development competitions. Custom C++ 3D engine, written at free time, used to launch a game on Google Play market with tens of thousands of downloads.

Experience

SDE | AMAZON LONDON, UK | JAN 2016 -

- Technical project leader on launching Amazon Video on Sony PlayStation 3 and PlayStation 4 planning, coordinating the team, development of major parts of the app rendering, video playback, platform compatibility layer.
- Shipped Amazon Video on Sony PlayStation 4 and PlayStation 3 for several million customers worldwide. Shipped first Amazon Prime Video App on Apple TV the most downloaded Apple TV app in its first week. Release owner of the app.

SENIOR ENGINEER | WARGAMING, SYDNEY, AUSTRALIA | JAN 2015 - DEC 2015

- Worked on updating graphics of the massively multiplayer online game World of Tanks (over 160 million registered players) to support modern graphics APIs. Resolved ~70 graphics issues.
- Engine serialization was fixed to produce the same output on all CPUs to significantly reduce a size of game patches.
- Worked on scripts to move data from SVN to Perforce and back to allow sharing of a source code between offices.

SENIOR ENGINEER | SAMSUNG ELECTRONICS HQ, KOREA | OCT 2005 - DEC 2014

- Project Leader/Coordinator of 3 projects in the Browser team maintenance of Smart TV Browser on all Samsung TV platforms, new Tizen-based browser, Advanced Browser project voice/gesture-based browser for Smart TVs.
- Improved usability of the Smart TV browser auto-completion of URL, smartphone-like scrolling of pages using smart remote, smooth cursor movement on low-level devices. Initiated refactoring of the outdated legacy code.
- Fixed security vulnerabilities, including SQL injections and buffer overflows, completely refactored DB access.
- Ported Adobe Access (DRM solution for Flash), allowed major US content providers to securely stream video content to Samsung TVs.
- Shipped Comcast xFinity App on 2013 Samsung TVs by deployment of special version of Flash.
- Significantly improved performance of UI authoring tool by optimizing memory allocations and various editor functionality.

ENGINEER | SOFT LTD, TURKMENISTAN | OCT 1999 - JUN 2004

 Project leader of "Document Flow" system for Ministry of Foreign Affairs of Turkmenistan – developed UI (including Universal Edit Control) and backend (MS SQL, Transact-SQL based), project was shipped to the Ministry.

GLOW3D | GAME ENGINE | WWW.GLOW3D.COM

- Cross platform 3D game engine, written in C++, targets DirectX 9, 11, OpenGL and OpenGL ES APIs.
- $\cdot~$ Works on Windows, Mac, Android, IOS, Linux and browser (WebAssembly).
- Supports forward and deferred shading, HBAO+, TXAA, motion blur, Color grading (forward shading on mobile platforms).
- Works on top of the job system, scales to any number of CPU cores. AI navigation by Recast, real-time physics by Bullet.
- Fully functional 3D editor with undo/redo, in-place gaming, cinematic editor.

Iron Cube - Android Voxel game, launched on Google Play Market – more than 40 000 downloads.

Awards

 Intel Perceptual Computing Challenge, 2013. 1st Prize. Demo application to edit 3d surface by hands using Intel RealSense 3D Video + Depth Camera. Intel Level Up 2009 International Challenge. "I know your Deeds" Game. 1st place in "Best Game on Intel® Graphics" and 2nd place in "Best Threaded Game".