

Jakub Jan Duchniewicz

JUNIOR SOFTWARE ENGINEER · EMBEDDED AND GAME ENGINE DEVELOPER

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“Success is 5% talent and 95% hard work”

Summary

I am a passionate and hard-working person, therefore I do a wide range of technology-related activities in my free time, such as constantly tinkering with my Linux installation, customizing it to my needs or developing time-saving scripts and plugins. I have already built successful and open-minded teams, proving my capabilities in this area. I believe that helping others is as valuable as my own technical contribution to the team.

Education

Warsaw University Of Technology

B.SC. IN COMPUTER SCIENCE

Bachelor's Thesis: FPGA based hardware accelerator for musical synthesis for Linux system.

Warsaw

Oct. 2016 - Present

Experience

Samsung Electronics

JUNIOR SOFTWARE ENGINEER

- Improved Tizen Operating System Broadcast middleware (C++/C/Arm assembly). Managed performance in an embedded system, through code restructurization and thread-wise code improvement.
- Improved performance of code in major broadcasting pipelining module by aware refactorization and smart usage of C++17 STL and Boost library.
- Improved overall health of code, by analysis of core dumps and various system logs. When deemed necessary provided other teams with ready solution.
- Developed from scratch a multithreaded C compliant middleware process, with custom thread work queue implementation.
- Worked with version control tools (git, p4) and in an agile environment (scrum).
- Developed bash and python scripts aiding development and analysis of problems.
- Developed python utility program for automatization of defect analysis.
- Travelled to Korea to aid with defects management during commercialisation and to offer quick support.
- Worked in a diverse multi-cultural environment, giving helping hand those who needed it.

Warsaw, Poland

Feb. 2018 - Mar. 2020

Samsung Electronics

INTERN

- Supported in project management and knowledge transfer from other R&D Institute.
- Based on good performance and analytical skills got an offer for full-time work.

Warsaw, Poland

Dec. 2017 - Feb. 2018

BoSport/Beskid Ski Arena

KITE/WIND/SKI INSTRUCTOR

- Worked with all kinds of people, teaching them and maintaining good relations throughout the years following.
- Taught in various changing conditions, always taking responsibility for life of others.
- Taught in both Polish and English.

Chałupy/Szczyrk, Poland

Jun. 2014 - Sep. 2017

Extracurricular Activity

PolyEngine

DEVELOPER

- Reimplemented Entity Component System systems.
- Refactored code and cleaned architecture of engine.
- Developed various necessary features during gamejams (both gameplay and engine-wise).
- Developed 3 games during Global Game Jam 18/19 and Slavic Game Jam 18.
- Developed efficient data structures for a game engine: string and queue with STL compliance.

Warsaw

Oct. 2017 - Present

KNTG Polygon

VICE PRESIDENT

Warsaw

Oct. 2017 - Jun. 2019

- Organised weekly meetings for student game development group Polygon.
- Gave two talks on Modern C++ usage and easily overlooked nuances.
- Helped organise game jams (Polyjam 2018/2019).

Game Dev Fest 7 and 8

Warsaw

EVENT ORGANISER

Nov. 2018 - Jun. 2019

- Planned and realised two 4-meeting editions of Game Dev Fest: invited lecturers and managed sponsorship of both events.
- Managed sponsorship funds and promotion of both events.
- Vice-organised two events in November 2017 and June 2018

Skills

Programming C++17, C, C#, ARM/x86 assembly, Python, Bash, OpenGL, LaTeX, Verilog

Technical FPGA, Electronics, Microcontrollers, RTOS, Linux Kernel, DSP, Network Stack, IoT, Game Engine Architectures

Languages Polish, English, German, Spanish

Honors & Awards

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| 2019 | Honorable mention , Warsaw Film School Game Jam VI
“Eternal Feud” - Low-poly, competitive co-op, made in a duo team. | Warsaw, Poland |
| 2018 | Honorable mention , Static Code Analysis Competition - Samsung Electronics | Global |
| 2017 | 2nd Place Overall, 2nd Place in Innovation , Polyjam, Global Game Jam 2017
“Ommm” - Controlling a monk with the power of your voice. | Warsaw, Poland |