

JAN BIELAK

Contact Information

Email
contact@janbielak.com

Portfolio website
janbielak.com

GitHub profile
github.com/janekb04

Skills

Advanced programming skills
Presentation skills
Collaborative design thinking
Research skills
Graphics rendering
Video editing

Technologies

C++	●●●●●●●
C#	●●●●○
Python	●●●○○
OpenGL	●●●●○
Vulkan	●●○○○
Git	●●●○○
Shell	●●●○○
Blender	●●●●○
Unity Engine	●●●○○

Experience

PaSh Research Project

2020-2022

An international research project aimed at optimizing shell scripts. It is a conjoined work of researchers from many institutions including MIT, UPenn, and Google. I worked on implementing aggregators, the system's runtime components.

CyberDuck

2020-2022

An environmental project consisting of designing, constructing and programming a swimming meteorological station. I wrote the system's user-facing interface used to steer the robot and access its sensor readings. Being also a team lead, I made presentations for our grant program.

The C++ Club

2019-2021

My course of the C++ language. I conducted it remotely during the lockdown and have since uploaded it to YouTube. It involved research and preparing presentations, as well as editing videos and managing the YouTube channel.

Disctinctions

Practically Correct, Just-in-Time Shell Script Parallelization

2022

A distributed systems paper published at the OSDI 22 Conference. I coauthored it with Konstantinos Kallas, Tammam Mustafa, Dimitris Karnikis, Thurston H.Y. Dang, Michael Greenberg, and Nikos Vasilakis.

Your Performance Todo List

2022

My talk about performance optimization. It has been accepted to CppCon, where I presented it to C++ professionals. It is also on the CppCon YouTube channel.

Education

XIV LO im. Stanisława Staszica w Warszawie

2019-

Considered as one of the best high schools in Poland, my school is especially famous for excelling in STEM subjects. I am a senior year student in a class profile extending mathematics, physics and computer science.