Miłosz Wąsacz

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EDUCATION

University of Bristol, UK | *MEng in Computer Science* 2022 – Present
- Expected Classification: First Class Honours
- Selected courses: Systems & Software Security, Advanced Computer Architecture, Advanced Algorithms, High Performance Computing
- Award for Top 10 highest mark in Year 2

EXPERIENCE

InstalSoft s.c., Chorzów, Poland | *Software Engineer* 2023 – Present
- Licensing system *(C#, WPF, MySQL, Entity Framework)*
- Product database management system *(C#, WinForms)*
- Agile Scrum methodology, 30+ person team, continuous integration

University of Bristol HPC group, Bristol, UK | *Intern* 2025
- Summer internship at the High Performance Computing research group
- Extended the group's simulation framework, SimEng, to support external accelerators and coprocessors, with a particular focus on a custom AArch64 SME accelerator
- Large-scale production-grade C++ codebase

SKILLS

Programming languages	Expert: Rust, C# Intermediate: C++, Python, RISC-V Assembly, Kotlin, Java, TypeScript Familiar: C, AArch64 Assembly, x86_64 Assembly, Haskell, Go, SQL
Frameworks/libraries	.NET, PyTorch, Avalonia, WPF, Jupyter Notebook, Unity
Developer tools	Git, Linux, GitHub, SVN, Docker, GDB, CMake
Spoken languages	Polish (native), English (fluent), German (elementary)
Other	Good communication skills, team leader, fast learner

SELECTED PROJECTS

RISC-V CPU simulator | *Rust* 2025 – Present
- Cycle-accurate simulator of a RISC-V core
- `rv64im` ISA
- On-chip 3-level cache hierarchy

EcoSystem | *C#, Unity* 2024 – 2025
- Technical lead in a team project
- Single-player platformer game
- Complex enemy behaviours achieved through a variety of algorithms, incl. Reinforcement Learning

Wall Projections | *C#, Python* 2023 – 2024
- Team leader in a team project
- Collaboration with Bristol Museum & Art Gallery
- Interactive exhibition – a camera mounted above a replica of an artifact detects visitors' hands, and a nearby display shows relevant information when a particular "hot spot" is pointed at