Szymon Jackiewicz

MComp Games Engineering student passionate about **tools, network and engine developement** with a focus on **C++**.
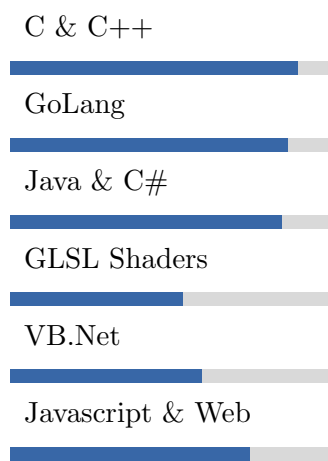
Notable Projects

Midori Engine — Game engine written in C++ built from scratch with an API-agnostic 3D renderer.

GNAT — C++ library for easy peer-to-peer networking with a custom communication protocol.

WinTUI — C++ library for easy to navigate, fully customisable UI in the Windows terminal.

Flip — Unity 2D platforming game. A link to the WebGL build can be found on *szy.wtf*.

Dissertation — Paper investigating implementations of peer-to-peer networking in modern games.

Education

Newcastle University [2015 - Present]

Parachute Club
- Since joining the club in the first year, have been an **active member** in activities and events.
- Became **club treasurer** and helped plan out many events for the other members alongside gaining new responsibilities.

Physics
- Implemented **collision calculations** with impulse and reflections between squares and circles.
- **A* pathing** added for AI navigation around walls and obsticles.

Graphics
- Gained familiarity with writing and debugging **GLSL Shaders** in OpenGL.
- Experience with **matrix manipulation** for rendering and animating scenes.

Team Project
- Coordinated a small team as the **lead programmer** in an Android app developement project.
- Distributed tasks and deadlines across my team with the **Scrum** methodology.

Stage 4
Average of **TBD%**
Adv. G. Prog. 96%

Stage 3
Average of **75%**
Dissertation 74%
Games Prog. 82%
Graphics Prog. 80%
Concurrency 89%
Cryptography 85%

Stage 2
Average of **78%**

Stage 1
Average of **73%**

Attributes and Skills

C & C++

GoLang

Java & C#

GLSL Shaders

VB.Net

Javascript & Web

- Use custom rice for my **Emacs** and **Linux** configurations.
- Familiar with markdown and LaTeX.
- Regularily maintain and add Github projects on my personal account: **github.com/SzyJ**.
- Can fluently communicate in **English**, **Polish** and currently learning **Japanese**.
- Enjoy **Skiing**, **Snowboarding** and **Skydiving** whenever possible.

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Work Experience

Formica Ltd.

- 📄 Documented the **data storage**, **processing** and **flows** throught all areas of the company, ensuring that all processing is **GDPR compliant**.
- 🚀 Improved comapny productivity by **developing scripts** allowing for **automation of processes** such as extracting data from scans of purchase orders.

👤 GDPR Compliance Intern
📅 Jun 2019 - Aug 2019
📍 Newcastle-Upon-Tyne, UK

❓ Analysed company systems producing documents relating to GDPR compliance.

PCMS

- </> Wrote code primerily in **Java** using the **Spring** framework, including a **TDD and BDD workflow** with various JUnit frameworks.
- 🗄 Worked on the developement of new features for **web service APIs**. Deployed QA WAS and Oracle Database servers.
- >_ Extensive use of **Mercurial version control** in a professional environment. **Developed scripts** automating many processes previously done manually. Femiliar with **continuous integration** systems.
- 🏆 As a team, **came 1st** in the Warwick University Hackathon **representing the company**. Also represented the company in other events such as University Careers Fairs.

👤 Placement Software Developer
📅 July 2017 - July 2018
📍 Coventry, UK

❓ Worked on various projects from John Lewis and Marston's till software to RESTful external services. Implemented new features and fixed bugs reported through Jira.

IamVIP

- 📷 Work by myself in a large variety of different night clubs every weekend, **constantly adapting to new environments**.
- 👥 Interacted with 50+ people every hour whilst applying **marketing techniques** to sell as many keyrings as possible and developing **interpersonal skills**.
- 💰 Worked in very busy conditions while managing the money that I made from each customer.

👤 Nightclub Photography
📅 Feb 2016 - May 2016
📍 Newcastle-Upon-Tyne, UK

❓ Promoted and marketed myself as a photographer in busy nightclubs taking professional pictures and selling keyrings.

Other places of employment

Research Intern at EventPad: Finding contact leads to surpass the daily goal each day.

Shop Assistant in CEX in Manchester: Showing customers how electronic products work and testing incoming devices.

Low Voltage Appliance installation in Poland: Assistance with the installation of appliances such as alarm systems and sattelite dishes for private homes and businesses.

References

References available upon request. Please contact me via e-mail or phone