Szymon Jackiewicz

Software and Games Developer

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*.

Education

Newcastle University   [2015 - Present]

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

Dissertation
- Investigated the implementations of **netwoking in games**.
- Implemented an **API written in C++** for **Client-Hosted** and **Peer-to-Peer netwoking**.

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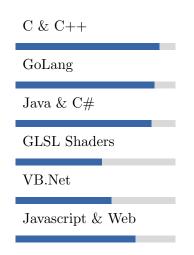
Stage 4
Average of **TBD%**
*Adv. G. Prog. **96%***

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