Mateusz Zaremba

Programmer, Mathematician, Graduate student

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Currently Studying towards MSc in Mathematics and Data Science at the University of Stirling

Specialized in C++, Python, R, Statistical Analysis, Big Data

Research interests Statistical analysis for data science, representing and manipulating data using R and

Python programming

Education University of Stirling, United Kingdom

MSc in Mathematics and Data Science

Representing and Manipulating Data (Merit)

Commercial and Scientific Applications (Merit)

Statistics for Data Science

Networks & Graph Theory

Data Analytics

Modelling in Financial and Medical Systems

Stochastic Processes and Optimisation

Dissertation Project

University of Abertay Dundee, United Kingdom

BSc with Merit in Computer Game Applications Development, 2:1

3rd year modules (GPA: 2.83):

Graphics Programming with Shaders (C+)

Gameplay Mechanics Development (C+)

Network Systems for Game Development (A)

Artificial Intelligence (B)

Professional Team Project: Planning and Prototyping (C+) Professional Team Project: Development and Delivery (C+)

2nd year modules (GPA: 4.17):

Data Structures and Algorithms 1 (A)

Data Structures and Algorithms 2 (A+)

Graphics Programming (A)

Game Programming and System Architectures (A)

Film and Game Genres (A)

Mathematics for Application Development 2 (A+)

1st year modules (GPA: 3.63):

Computer and Graphics Architectures (A)

Programming in C++ (A)

Narrative Theory in Interactive Game Design (C+)

Mathematics for Applications Development 1 (A+)

Asset Production for Games (B+)

Games for Change (B+)

Funding Awarded

The Data Lab MSc scholarship

Fully funded MSc place; ± 6500 towards tuition fees

Training with Data Scientists

2015 -2018

2019 -

2019

Relevant Experience

C++ Software Engineer Intern, Viastore

Learned about:

01.2019 -02.2019

Relational and non-Relational Databases

Large distributed IT systems

Business use of rapid prototyping

Unreal Game Programmer Intern, Bohemia Interactive

08.2018 -10.2018

Project worked on: Vigor, post-apocalyptic survival game

Internship responsibilities:

Networked gameplay programming

UI programming

Prototyping

Developing new solutions based on already existing ones and bug fixing

Lead Programmer, Abertay University: Professional Project

09.2017 -06.2018

Projects worked on:

Mobile game for Junkfish Game Company

Retro platformer for **Timex**

Engine: Unity

Programming language: C#

Platforms: Android (Junk Fish), Windows (Timex)

<u>git</u>

Key responsibilities:

Prototyping

Game programming

Source control maintenance: merging, pull requests, .gitignore

Team management:

Kanban boards with GitHub Projects SCRUM (Deadlines setting, mentoring)

Hackathons

Gameplay Programmer/Design/Team Lead, Serious Game Jam

24.01.2018 -26.01.2018

Mobile game prototype:

Aid for lectures and students from the University of St Andrews, with preparation and explanation of their practical exercises

Engine: Unity

Programming language: C#

Platform: Android gameplay video, git

Gameplay Programmer/Design/Team Lead, AGDS 4-hour Game Jam

15.11.2017

Brief visual novel with animations, telling a joke

Made in 4-hours with two artists

Engine: Ren'Py

Programming language: Python

Platform: Windows gameplay video, git

Gameplay Programmer/Design/Team Lead, Rainbow Game Jam

15.08.2016 -

Infinite runner chosen to be made in 48-hours with two other artists and a sound designer 17.08.2016

Engine: Unity

Programming language: C# Platforms: Windows, MAC, Linux gameplay video, git, play in browser

Gameplay Programmer, Global Game Jam 2016

29.01.2016 -

Easy pick-up game. My first Unity project and first game jam

Engine: Unity

Programming language: C# Platforms: Windows, MAC, Linux

gameplay video

31.01.2016

Societies	Member of Abertay Game Development Society: 1st year project, 2nd year project	Sep	2015	- Jul 2018
Volunteer Experience	Built and managed St Andrew's RC Cathedral website	Sep	2017	- Aug
	http://www.standrewscathedraldundee.com/			2018
	Class Representative of the 1st Year Computer Applications Game Development course	Sep	2015	- Apr 2016
Other Experience	Warden, St. Ninian's Institute, Diocese of Dunkeld Taking care of the St Ninian's Institute and its guests	0ct	2015	- Dec 2015
	Welcoming at the reception and showing guests to their rooms			
	Waiter/Bartender, Drumoig Golf Hotel Welcoming people at the reception Bartending Waitering	Apr	2015	- Aug 2015
	Office Assistant, University of Wroclaw Calling vendors to set up appointments and gather information Post delivery Clerk duties	May	2013	- Aug 2013
	Younger Lifeguard, Wroclaw Water Park Taking care of visitors safety and well being Stamina and wellbeing training	Jan	2009	- Aug 2009