# Mateusz Zaremba

Programmer, Mathematician, Graduate student

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

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

#### University of Stirling, United Kingdom Education

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

2020

2019 -2020

2015 -2018

Sep 2019 - Aug

Relevant Experience

#### C++ Software Engineer Intern, Viastore

Learned about:

Relational and non-Relational Databases

Large distributed IT systems

Business use of rapid prototyping

#### Unreal Game Programmer Intern, Bohemia Interactive

Aug - Oct

Jan - Feb

2018

Project worked on: <u>Vigor</u>, 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

Sep 2017 - Jun

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

Jan 24, 2018 - Jan 26,

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

Nov 8, 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

Aug 15, 2016 - Aug 17,

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

2016

Engine: Unity

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

## Gameplay Programmer, Global Game Jam 2016

Jan 29, 2016 - Jan 31,

2016

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

Engine: Unity

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

gameplay video

2019

Societies	Member of Abertay Game Development Society: 1st year project, 2nd year project	Sep 7	2015	- Jul 2018
Volunteer Experience	Built and managed St Andrew's RC Cathedral website  http://www.standrewscathedraldundee.com/	Sep 7	2017	- Aug 2018
	Class Representative of the 1st Year Computer Applications Game Development course	Sep 7	2015	- Apr 2016
Other Experience	Warden, St. Ninian's Institute, Diocese of Dunkeld Taking care of the St Ninian's Institute and its guests Welcoming at the reception and showing guests to their rooms		0ct	- Dec 2015
	Waiter/Bartender, Drumoig Golf Hotel Welcoming people at the reception Bartending Waitering		Apr	- Aug 2015
	Office Assistant, University of Wroclaw  Calling vendors to set up appointments and gather information  Post delivery  Clerk duties		May	- Aug 2013
	Younger Lifeguard, Wroclaw Water Park Taking care of visitors safety and well being Stamina and wellbeing training		Jan	- Aug 2009