

Mat 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++, Mathematics, Unity3D, Git with bash	
Secondary skills	C#, Python, R, Statistical Analysis, Big Data, SQL	
Gaming	Graphics programming (SFML, DirectX 11), Box2D, PSVita	
Education	University of Stirling, United Kingdom MSc in Mathematics and Data Science Representing and Manipulating Data (Merit-64%) Commercial and Scientific Applications (Merit-62%) Statistics for Data Science (Pass-50%) Networks & Graph Theory Data Analytics Modelling in Financial and Medical Systems Stochastic Processes and Optimisation Dissertation Project	2019-2021
	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+)	2015-2018
Funding Awarded	The Data Lab MSc scholarship Fully funded MSc place; £6500 towards tuition fees Training with Data Scientists	Sep 2019-Aug 2021

Relevant Experience

C++ Software Engineer Intern, Viastore

Jan-Feb 2019

Learned about:

- Relational and non-Relational Databases using SQL and C++
- Large distributed IT systems
- Business use of rapid prototyping

Unreal Game Programmer Intern, Bohemia Interactive

Aug-Oct 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

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)
- git

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 24-26,
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 15-17,
2016

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

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

Gameplay Programmer, Global Game Jam 2016

Jan 29-31,
2016

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

Engine: Unity

Programming language: C#
Platforms: Windows, MAC, Linux
[gameplay video](#)

Societies

Member of Abertay Game Development Society: [1st year project](#), [2nd year project](#) Sep 2015-Jul 2018

Volunteer Experience

Answering Questions About Mathematics and Coding on Quora Jul 2019-Present
[My Quora Answers](#)

Built and managed St Andrew's RC Cathedral website Sep 2017-Aug 2018
<http://www.standrewscathedraldundee.com/>

1st Year Class Representative at Abertay University Sep 2015-Apr 2016
Listening to student feedback and liaising with lectures
Attended training about leadership and teamwork

Other Experience

Warden, St. Ninian's Institute, Diocese of Dunkeld Oct-Dec 2015
Taking care of the St Ninian's Institute and its guests
Welcoming at the reception and showing guests to their rooms

Waiter/Bartender, Drumoig Golf Hotel Apr-Aug 2015
Welcoming people at the reception
Bartending
Waitering

Office Assistant, University of Wroclaw May-Aug 2013
Calling vendors to set up appointments and gather information
Post delivery
Clerk duties

Younger Lifeguard, Wroclaw Water Park Jan-Aug 2009
Taking care of visitors safety and well being
Stamina and wellbeing training