# ORI LAZAR

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Passionate about developing tools and graphics engines to produce mesmerizing simulations using C++. I am eager to work in a team environment and share my experiences and knowledge with others.

#### **EDUCATION**

Newcastle University, United Kingdom

Zman Amiti Bartending School, Israel

September 2019 - Present

Masters of Computer Games Engineering.

Overall: TBD — Current Traj: First Class

University of Southampton, United Kingdom

Overall: First Class

Bachelors of Computer Science.

January 2016 - April 2016

August 2016 - September 2019

International Mixologist Qualification.

Overall: Top of the Class: 96%

Bedales School, United Kingdom

August 2012 - June 2014

A-Levels: Maths, Further Maths, Physics, Computer Science.

#### **PROJECTS**

# **Exalted Engine**

A graphics engine written in C++ built from the ground up with API-agnostic rendering. This project is not currently public, but may be viewed upon request.

#### Dissertation

A research into false alarms removal in real-time motion detection and classification algorithms at the CPU stage, including an integrated solution which became viable for change detection algorithms. The result of this research was a system with the capabilities of performing motion detection in dynamically lit, windy and noise filled environments, at real-time speeds, on the CPU.

# Software Engineering Group Project

I was the **scrum leader** and **lead programmer** for a team of 7, this meant being in charge of scheduling and assigning proactive workload between team members. Furthermore I had the opportunity to demonstrate the analysis of our progress on a bi-weekly basis to a marking committee, this included written and verbal reports.

#### Mapex Query Language

A programming language developed using Haskell which has the capabilities to solve any conjunctive query problem. A link to the documentation can be found at orilazar.com.

More projects can be found on my github, github.com/Kney-Delach.

# TECHNICAL SKILLS

Programming Languages: C++ (4 years), GLSL (1 year), Lua (1 year), Haskell (2 years),

Java (7 years)

Software Development Tools: Microsoft Visual Studio, NVIDIA NSight, Unity,

Unreal Engine, Git, Premake, Latex, Doxygen

API and Systems: ImGui, OpenGL 3.3, Assimp, Spdlog, QT, Tensorflow, Caffe

Production Tools: Github, Slack, Virtual Box

Playable links of the following games can be found at www.orilazar.com

# Mirage

A 2D spatial reasoning platformer I designed and developed with the aims of demonstrating a single core dynamic through fluid tutorialisation.

### **Musical Pipes**

This game was created with the aim to showcase real-time signal analysis based procedural level generation. It also showcases a fun extension of generic survival pipe games.

# Seven Ravens

A top-down game used to showcase a parallel story-telling engine.

# Splash

This game was created with the aim to explore mobile game development and optimization requirements to meet mobile platform needs.

#### WORK EXPERIENCE

# DLC LTD, Israel

June - September 2017 & June - September 2018

Computer Vision Developer

• 2018: Worked on the integration and implementation of deep neural nets to produce effective classification of a dynamic range of entities in dynamically changing environments, including windy outdoor environments which had to be tracked during day and night.

**2017:** Developed algorithms to improve real-time motion detection capabilities of existing security systems, and integrated additional client-side capabilities using QT.

## Cote D'azur Cocktail Bar, Cyprus

June - September 2016

Bartender

· Head mixologist for a subsection of the bar. Involved managing a team of three to produce high quality cocktails. Also involved interacting within a high volume network of communication between a large staff team and customer base, whilst maintaining high and consistent standards of service.

#### ACHIEVEMENTS

Outstanding Game Award: Highest quality concept game produced by a student during the games design and development module. University of Southampton, 2019.

**Top of the Class**: Was awarded for graduating with the highest score of my class at the Zman Amiti International Bartending School in Tel-Aviv, Israel.

### PERSONAL NOTES

When possible I enjoy travelling to unique destinations, documenting my experiences through amateur photography. I spend my evenings with my dogs and partner, usually visiting local nature zones.

Can fluently communicate in **Hebrew**, **English**, and intermediately in **Russian**.

Enjoy Snowboarding, Surfing, Basketball and playing Video Games.

## REFERENCES

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