

# Mihail Morosan

Diplomacy and Artificial Intelligence

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## EDUCATION

University of Essex, Colchester, UK

*PhD Candidate*, Artificial Intelligence and Diplomacy

*Master of Science*, Advanced Computer Science, October 2014

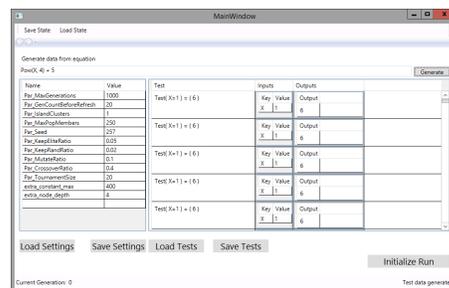
70%

*Bachelor of Science*, Computer Science, July 2013

80%

## PROJECTS

**OCAPE - Online Compiler and Performance Evaluator:** Software for managing, compiling, evaluating and reporting on programming implementations to various tasks. Supports C++, C#, Python and Java. Works on Windows and (with a limited feature-set) Linux distributions. This was my MSc dissertation and is now open source.



Sharp Genetics



GOAP Demo

**Sharp Genetics:** C# library for genetic programming. Makes use of smart templating to abstract the common genetic behaviour, while allowing for a wide variety of tasks to be solved. It aims to be quick and efficient, as well as scalable and, where possible, innovative. Has been made open source.

**Crazy Cabbies:** Done in cooperation with 3 other IGGI students in 48 hours during the Global Game Jam 2015. Unity3D game which has you picking up passengers with your cab, but features a really chaotic control system, designed for 2 to 4 players, each controlling one or two of the cab's wheels.



Crazy Cabbies



sNow or Never

**sNow or Never:** A minimal First Person Shooter I developed several years ago for a couple of competitions. Done in C++ using Irrlicht 3D for rendering, PhysX for physics simulation and Audiere for audio.

**Simple Goal-Oriented Action Planning Demo:** A small demonstration of how Clingo (Procedural Content Generation using Answer Set Programming) and Goal-Oriented Action Planning can be used together for constantly-changing environments and potentially entertaining gameplay.

**Value Cards:** Windows Phone 8 app that lets you quickly find the monetary value of your trading cards (currently only Magic: the Gathering) from a few different sources alongside seeing what the cards look like and what they do.

## COMPUTER SKILLS

**Languages:** C#, C++, Python, L<sup>A</sup>T<sub>E</sub>X, Ruby.

**Web Development:** HTML, CSS, JavaScript, PHP, ASP.NET.

**Applications:** Visual Studio, Git, VirtualBox, MySQL, Unity3D.

**Operating Systems:** Windows, Windows Phone, \*nix.

## EXPERIENCE

### FLDP - Technology Intern

Barclays Bank

June 2012 - July 2012

London

As part of the Future Leaders Development Programme, I worked on a few projects in the Customer Experience team in the London HQ of Barclays. Learned a lot about finance and banking and project management.

### Web Development Frontrunner

EssexLab

January 2014 - June 2014

University of Essex

This position had me helping the EssexLab, a laboratory for social and economic experiments, with the programming of experiments, as well as the maintenance and improvement of their registration website. It was my first opportunity to be responsible for improvements to a commercial piece of software.

### Screencast Designer Frontrunner

IT Training Essex

September 2013 - January 2014

University of Essex

Part of the University of Essex IT Training Team designing and recording informative screencasts for a wide variety of IT topics of varying difficulty for the University of Essex.

### President

Essex e-Sports

October 2011 - July 2013

University of Essex

Founded and managed the first university e-Sports society at the University of Essex and one of the first in the UK. Organised a multitude of successful gaming and social events, created partnerships with a few organisations around Colchester and, most importantly, brought together many like-minded people.

## COMPETITIVE EXPERIENCE

I have participated in many programming and software competitions during my high school years, with great results at the highest level. Some of these results include a silver medal at the Romanian national programming Olympiad, first places in software competitions and top 3 placings in national mathematics competitions.

## INTERESTS

Competitions (programming, tournaments, software design, games), diplomacy and politics, strategy games (video and card-based), leadership and presentation skills improvement, casual sports (badminton, basketball).

## ...MORE

Everything described in this CV is also available on my website, [www.morosanmihail.com](http://www.morosanmihail.com), with demos and code for your perusal. Thank you for reading!