

# Simon Rovder

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## Education

### University of Edinburgh (September 2013 - May 2018)

- Master of Information Technology, headed for a 1:1 with an average of 86%.

### International Baccalaureate (September 2011 - May 2013)

- Completed study with an overall grade of 43.

## Skills

- **Advanced in:** Java, Python, Flask, SQL, OpenCL
- **Experience with:** React, NodeJS, ASP.NET, JavaScript, PHP, HTML, CSS, Haskell C, C++, C#, JQuery
- **Operating Systems:** Linux, Windows
- **Tools:** Git, IntelliJ IDEs, Hadoop, Visual Studio, Microsoft Office, Tex, Tensorflow
- **Languages:** English (fluent), Slovak (fluent), Czech (fluent)

## Work Experience

### Microsoft Internship (July 2017 - September 2017)

- Participated in development of Microsoft Office online services
- Worked on the Office Readiness Toolkit, designed to help users detect potential Office Addin compatibility issues

### Droppie (June 2014 - October 2015)

- Backend developer for a location-based social network called Droppie
- Designed the Python-based backend, written in the Flask microframework, using Google Cloud SQL, deployed the backend on Google App Engine, utilizing Google Cloud Technologies and Facebook and Twitter OAuth services
- More information can be found at: <https://www.rovder.com/droppie.php>

## Projects

### Honours Project - Running Neural Networks on the MALI T628 GPU (2016 - 2017)

- Wrote OpenCL kernels for all basic neural network operations and optimised them for the MALI T628 GPU
- Optimised matrix multiplication beyond the fastest available ARM implementation using a novel concept of Hybrid Morton Order Memory Layouts combined with specifically tailored workgroup size allocation
- Report available here: [www.honours.rovder.com](http://www.honours.rovder.com)

### Robocup Small Size League (January 2016 - April 2016)

- Built an Arduino-controlled holonomic robot capable of playing football
- Wrote Strategy, Navigation and Vision systems to control the robot
- Code and Documentation: [www.fred.rovder.com](http://www.fred.rovder.com) Further information: [www.rovder.com/robots.php](http://www.rovder.com/robots.php)

### Maze generation (October 2015)

- Designed an algorithm, which generated a 1 000 000 by 1 000 000 pixel maze
- Taking up 125GB with monochromatic bitmap maze tiles, it is likely the largest digital maze ever generated
- Git repository containing the algorithm: <https://github.com/SimonRovder/MazeGeneration>
- This part is here mainly so you can take a look at the general style of my code.

## Leadership Experience

### Vice President of the Slovak and Czech Society at The University of Edinburgh (May 2014 - April 2016) :

- Organising events for the society members, managing bookings of premises and communicating with the committees of other societies

### Member of the Boy Scouts (June 2011 - September 2014):

- Led a Patrol of 8 boys for one year, then proceeded to the post of a Troop Assistant, continued there for two years
- Helped prepare the schedule and games for the month long scout camp, which takes place over the Summer

## Accomplishments

### Winner of the Coca Cola Scholarship:

- Awarded to four undergraduates, this scholarship of 7000 GBP per year lasts for the entirety of undergraduate study