

Sigurður Helgason

Computer Scientist

Contact Information

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Education

Reykjavik University / MSc in Computer Science

August 2018 - Present, Reykjavik

Currently attending RU for a Masters degree in Computer Science, GPA 9.1/10

Reykjavik University / BSc in Computer Science

August 2015 - June 2018, Reykjavik

Completed the [research based Computer Science degree](#) with a GPA 8.9/10

Technical Academy / School of Information Technology

August 2011 - June 2015, Reykjavik

Finished a combined highschool degree and Computer Science diploma

Experience

Researcher & Programmer / RU Fintech Center

January 2018 - Present, Reykjavik

- Developed a blockchain platform for hosting digital certificates securely within a smart-contract, allowing students and potential employers to verify the authenticity of digital certificates.
- Developed in NodeJS, Go, and Python

Teaching Assistant / Reykjavik University

Years 2017 - 2019, Reykjavik

- Taught classes and helped students as a teaching assistant throughout my studies at Reykjavik University for the courses Algorithms, Computer Networks, and Artificial Intelligence

Programmer / Icelandic Customs Authority

Summer 2016, Reykjavik

- Created the development methodology for the customs authority programming department introducing continuous development and an Agile workflow

Student Council member / Technical Academy

Years 2012 - 2013, Reykjavik

- Assisted in managing events of the various groups in my highschool including programming competitions
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Projects

BSc Final Project - ComboPal / PartiScope

Semester 2018

- Created a program Partiscope to automatically enumerate set partitions by breaking a combinatorial object down into its core components finding patterns and relations, resulting in a combinatorial specification and a generating function for the enumeration of the combinatorial class.
- Created a visualization tool for viewing the resulting combinatorial specification.
- The project was created using Python, Flask, and Javascript, available at combopal.ru.is

Dragnet / Artificial Intelligence

Semester 2017

- Developed a deep neural network to analyze water damaged documents written in cyrillic to apply optical character recognition, using tensor flow. The project was inspired by a document leak where many presidential documents had been thrown underwater in an attempt to discard them.

SeaDrone / Summer Project

Summer 2017

- Funded project by the Icelandic Government as well as the Bank of Iceland, for 20M ISK
- Assisted in the creation of a drone hull for sea
- Developed an artificial intelligence in C for navigating at sea, this was developed on a raspberry pi including the orchestration of the many sensors and sonar devices on board the drone
- Created a web interface for captains of shipping vessels to interact with the drone, the web interface was developed in NodeJS, and ReactJS