

# THEO OLAUSSON

Informatics Student |  EDINBURGH, SCOTLAND | +447460113410

## ◦ DETAILS ◦

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## ◦ LINKS ◦

<https://github.com/theoxo>  
[theoxo.xyz](https://theoxo.xyz)

## ◦ SKILLS ◦

Python  
Git VCS  
Linux  
Kotlin, Java  
C  
Haskell  
JUnit, Espresso testing

## ◦ LANGUAGES ◦

Swedish

English

## PROFILE

Informatics student at the University of Edinburgh with an exceptional academic record (average grade: A2) and experience in research.

## EMPLOYMENT HISTORY

### Research Assistant at School of Informatics, University of Edinburgh

May 2018 – August 2018

Tech stack: Python 3, Murphi formal verification, antlr3, bash.

Supervisor and project: Dr. Vijay Nagarajan, *ProtoGen - A tool for computer aided development of directory-based cache coherence protocols*, as seen at the International Symposium on Computer Architecture, Los Angeles, June 2018.

- Used novel approaches to develop algorithms which localise bugs in cache coherence protocols
- Implemented these algorithms and developed an automatic parser for the Murphi backend output (*Python*)
- Developed a test suite to evaluate the performance of the algorithms on example protocols (*bash*)

## EDUCATION

### University of Edinburgh

September 2016 – Present

**Degree: Master of Informatics**

5-year integrated Masters programme, starting off following the same path as the BSc in Artificial Intelligence & Computer Science but then diverging into study at the Masters level.

**Average grade: A2.**

Course highlights from this year:

- Introduction to Vision & Robotics: Built a system controlling a simulated robotic arm using computer vision and PD-control. Tech stack: *Python, OpenCV*.
- Introductory Applied Machine Learning: Analysed large datasets and built systems that for example carried out optical character recognition. Tech stack: *Python, Jupyter Notebook, SciKit-Learn, Pandas, Numpy, Seaborn*.
- Informatics Large Practical: Developed a social, location-based Android game. Tech stack: *Kotlin, Google Firestore, Gradle, MapboxSDK*. Source code available at: <https://github.com/theoxo/CoinzAndroidGame>

## AWARDS

### 2x €3000 Grants for pursuing further education abroad

Awarded by the Hempel Foundation in Copenhagen, Denmark

### £200 Award for top academic performance

Awarded by Ehrensårdiska High School in Karlskrona, Sweden