

Igor Sterner

Multilingual Engineer

IET Diamond Jubilee Scholar

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- Full Driving License

Languages

- English (Native) ● ● ● ● ●
- Swedish (Native) ● ● ● ● ●
- Chinese (~ HSK4) ● ● ● ● ●
- German (Goethe B2) ● ● ● ● ●

Programming

- Python ● ● ● ● ●
- C++ ● ● ● ● ●
- Matlab ● ● ● ● ●
- LaTeX ● ● ● ● ●

Additional skills

- Microsoft Office (full package) ● ● ● ● ●
- Version control (Git) ● ● ● ● ●
- Operating systems (all) ● ● ● ● ●
- Social media (all platforms) ● ● ● ● ●

References

Professor Gábor Csányi
Director of Studies
University of Cambridge
gc121@cam.ac.uk

Mr Thomas Endres
Managing Partner
TNG Technology Consultancy GmbH
thomas.endres@tngtech.com

Education

2019–23

MEng, University of Cambridge
Information and Computing Engineering

Pembroke College

4th year - machine learning, deep learning, computer vision, advanced information theory and computational neuroscience

Thesis: Vision Encoders in Visual Question Answering

Dissertation: Automatic Detection of Code-Switching

3rd year - advanced statistics, information theory, control theory, neuroscience and design

1st year & 2nd year - mechanics, structures, materials, thermofluids, electrical and information engineering

- Compiled a dataset of Code-switched German-English Tweets for large-scale training, working with a variety of NLP tools in Python (*project prize winning, top ranked*)
- Collaborated with the Centre for Global Equality to design a gas connector adaptor for LEDC hospitals. Gained attention from the Every Breath Counts Coalition and WHO members
- Project managed 4 week team robotics project to design an autonomous robot running on an Arduino using C++

Summer 2022

International Summer School

Heidelberg University

Received grants to attend an intensive course in German language and culture at the CEFR B2.2 level, alongside a range of seminars

2017–19

A-Levels - A*A*A*A*B

Tiffin School

Maths, Further Maths, Physics, Chemistry and Chinese

2012–17

GCSEs - 10 A*s as academic scholar

Trinity School

Work experience

Summer 2021

Junior Consultant

TNG Technology Consultancy GmbH (Remote)

Joined the Innovation Hacking team to work on *neural machine translation*. Increased the functionality of a translator tool to support German and Hungarian, training a model in Python using Google Trax and running evaluation (BLEU/ROUGE). Attended the annual Machine Translation conference virtually

Summer 2020

Research placement

The Future Lab, Tsinghua University (Remote)

Supported a team developing graphical tactile displays for the visually impaired: interviewing, researching and reporting

July 2018

Robotics work experience

Imperial College London

Constructed a fully 3D-printed robot able to solve the Rubik's Cube using a Raspberry Pi and Fusion 360 CAD software

Awards & Grants

2019–23

IET Diamond Jubilee Scholar

An ambassador for the Institute of Engineering and Technology, promoting engineering by giving outreach talks, hosting the on-line #PresentIn10 competition and attending other IET events

2019

National winner - Imperial College Science Challenge

Wrote a creative piece 'How will A.I.s turn art into science?'

Interests

Culture

Student host of the sixth annual China Goes Global event

Co-organised and co-hosted an event with guest speaker Professor Rana Mitter OBE and others

Coding

Regularly implement novel ideas

Linked GPT-3 summarizer with DeepL translation API to do Chinese article summarization homework

Sport

Co-president of the Cambridge University Real Tennis Club

An active committee member and a competitive player