Igor Sterner

Multilingual Engineer
IET Diamond Jubilee Scholar

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Languages

English (Native) $\bullet \bullet \bullet \bullet$ Swedish (Native) $\bullet \bullet \bullet \bullet$ Chinese (\sim HSK4) $\bullet \bullet \bullet \bullet$ German (Goethe B2) $\bullet \bullet \bullet \bullet$

Programming



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 Pembroke College Information and Computing Engineering

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 Syntactically Mismatched

Code-Switched German-English Tweets

<u>3rd year</u> - 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++

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 <i>neural machine translation</i> . 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 Supported a team develop visually impaired: interview	oing graphical tactil	e displays for the
July 2018	Robotics work experience Constructed a fully 3D-pr Cube using a Raspberry Pi	inted robot able to	

Awards & Grants

2019–23 IET Diamond Jubliee Scholar

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

2022 A.J. Pressland Fund & Kurt Hahn Trust

Received grants to attend an intensive course in German language

and culture at Heidelberg University, Germany

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 Profes-

sor Rana Mitter OBE and others

Coding Regularly implement novel ideas

Linked GPT-3 summarizer with DeepL translation API to do Chi-

nese article summarization homework

Sport Co-president of the Cambridge University Real Tennis Club

An active committee member and a competitive player