

# Edmund Goodman

Cambridge, England, United Kingdom



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## Summary

I am a student who enjoys playing music, climbing, and (unsurprisingly) computer science.

I am interested and have experience in cyber security, networking, and robotics, and am looking to further my knowledge in those subjects. Find out more about what I've done on my GitHub: <https://github.com/EdmundGoodman>

## Experience



### Competitor

iGEM Competition

Feb 2021 - Present (3 months +)



### Software Engineer Intern

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Jul 2020 - Sep 2020 (3 months)

I updated a testing harness for fibre optic switches from python2 to python3, refactored the VBA backend of an excel spreadsheet used for corporate planning, created visual representations for the aforementioned planning data, and wrote a Java implementation of NETCONF call home (<https://tools.ietf.org/html/rfc8071>) for the open source ONOS project.



### Software Engineering Work Experience

Argon Design Ltd

2017 - 2017 (1 year)

I refactored and redesigned an information display board, converting a monolithic file into a series of microservices running with a python LAMP server, in order to serve the updated UI.



### Head Chorister

Jesus College Choir

Sep 2014 - Sep 2015 (1 year 1 month)

I lead around twenty choristers and probationers aging from six to fourteen singing in services and concerts, helping resolve issues before they grew to the extent they needed to be handled by the Director of Music, and recorded a solo part on the CD "Byrd / Britten".



### Chorister

Jesus College Choir

Sep 2011 - Sep 2014 (3 years 1 month)

I sung in choral evensongs twice a week in the college chapel, performed in concerts of choral works, for example the St Matthew and St John passions, went on international tours to France, Germany, and Switzerland, and performed on CD recordings with the choir.



### **Probationer**

Jesus College Choir

Sep 2008 - Sep 2011 (3 years 1 month)

## **Education**



### **University of Warwick**

Computer Science (MEng), Computer Science

2020 - 2024



### **The Perse School, Cambridge**

A-levels

2018 - 2020

Academic Scholarship

Physics (D1 eq. high A\*), A-level Computer Science (A\*), Pre-U Mathematics (D2 eq. A\*), and Further Mathematics (D3 eq. A\*/A)



### **The Perse School, Cambridge**

GCSEs

2009 - 2018

GCSEs in Mathematics (9), Physics (9), Biology (9), English Language (9), English Literature (8), Chemistry (A\*), Computer Science (A\*), Design & Technology (A\*), French (A\*), History (A\*), Music (A\*), a HPQ on computer security protocols (A\*), and a Free Standing Maths Qualification (A - the highest grade)

## **Skills**

Computer Science • Linux • GIT • Software Development • Microsoft Excel • Python (Programming Language) • Bash • GitHub • Windows • Ubuntu

## **Honors & Awards**



### **Caius college engineering essay contest - Caius College Cambridge**

Sep 2019

I was awarded 1st place in the Caius college engineering essay contest, with an entry titled "Powering the UK's electricity supply - distributed systems to enhance the viability of renewable power".

I outlined a proposal for addressing a major issue with renewable power sources such as wind and solar farms - the lack of a reliable power output, through a distributed system employing energy sinks such as electric car batteries, and installations like the Dinorwig power storage station.



### **Gold Crest Award - Crest Awards**

2019

I led the software aspect of a school "Engineering Education Scheme" entry, where we built an autonomous tennis ball collecting robot, identifying balls from webcam images, and interfacing with motors collect them, and received gold awards from both CREST and Industrial Cadets.

The source code for the project is available on my GitHub (<https://github.com/EdmundGoodman/EES>)



### **Air Cadet Leadership Course - Royal Air Force Air Cadets**

I passed the Air Cadet Leadership Course at RAF Cranwell. This intensive course focussed on teaching teamwork, management, and leadership. I learned how to plan an exercise, communicate effectively, and supervise a team of nine other cadets.



### **Gold Level Industrial Cadet - Industrial Cadets**

2019



### **Academic Scholarship - The Perse Sixth Form**

Sep 2018