

# Edmund Goodman

[linkedin.com/in/EdmundGoodman](https://www.linkedin.com/in/EdmundGoodman) | [github.com/EdmundGoodman](https://github.com/EdmundGoodman)

## EDUCATION

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### Warwick University

*MEng Computer Science: First year, 1st (80.8%)*

Sept. 2020 – Jun. 2024

*Coventry, England*

### The Perse Sixth Form

*Academic scholarship, Senior music colours, A-levels in Maths (D2, eq. A\*), Further Maths (D3, eq. A\*/A), Physics (D1, eq. high A\*) and Computer Science (A\*)*

Sept. 2018 – Jun. 2020

*Cambridge, England*

## EXPERIENCE

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### iGEM Competitor

*University of Warwick*

Feb. 2021 – Sept. 2020

*Coventry, England*

- Designed the wiki website required for the assessment of the project using HTML, SCSS, Javascript, and Hugo
- Wrote models for the spread of antibiotic resistant diseases in python to assess a new proposed diagnostic method

### Software Engineering Intern

*HUBER+SUHNER Polatis*

Jul. 2020 – Sept. 2020

*Cambridge, England*

- 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
- 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*

Jul. 2017

*Cambridge, England*

- 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

## PROJECTS

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### Warwick Guide | *Markdown, Java, Haskell, Git*

Apr. 2021 – Jun. 2021

- Founded and administrated an open source revision resource for the first year Warwick computer science course, used by over 100 students, and with contributions from over 25 - [Project link](#)
- Managed pull requests and issues following open source best practices, communicated with the university to ensure the project was acceptable, and contributed to the notes for every module I took

### Engineering Education Scheme | *Python*

Sept. 2019 – Apr. 2019

- Lead the software aspect of the school “Engineering Education Scheme” entry, building an autonomous tennis ball collector to the help sports teachers - [Project link](#), [Video](#)
- Implemented first principles image recognition for tennis balls, and wrote a search algorithm to collect them
- Contributed to the hardware aspect, manufacturing parts of the shell, and battery and flywheel mountings

### Rouse Research | *Python*

Sept. 2019 – Apr. 2019

- Received a Distinction for a project titled “How effective are machine learning algorithms compared to traditional analytical techniques with respect to play abstract games” - [Project link](#)
- Derived back-propagating neural networks from first principles
- Implemented neural networks, and genetic and tree search algorithms to play simple games

## ACHIEVEMENTS

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**Music:** Trinity Guildhall Grade 8 Trumpet, ABRSM Grade 7 Singing, Pro Corda national chamber music finalist, previous head chorister of Jesus College Choir

**Cyber Security:** Reached the final round of the Cyber Discovery competition, hence attending two SANS courses, SEC504: “Hacker Tools, Techniques, Exploits, and Incident Handling”, and FOR500: “Windows Forensic Analysis”

**Gold Crest award, and Gold level industrial cadet:** Awarded due to completing the EES project mentioned above

**Air Cadet Leadership Course:** One of 240 each year to graduate a demanding week long course at RAF Cranwell teaching practical leadership skills