

# Edmund Goodman

[Edmund.Goodman@warwick.ac.uk](mailto:Edmund.Goodman@warwick.ac.uk) | [linkedin.com/in/EdmundGoodman](https://www.linkedin.com/in/EdmundGoodman) | [github.com/EdmundGoodman](https://github.com/EdmundGoodman)

## EDUCATION

---

### Warwick University

*MEng Computer Science*

Sept. 2020 – June 2024

*Coventry, England*

### The Perse Sixth Form

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

Sept. 2018 - June 2020

*Cambridge, England*

## EXPERIENCE

---

### Software Engineering Intern

*HUBER+SUHNER Polatis*

July 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*

July 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

---

### Warwick Guide | *Git, Markdown*

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 to the notes, adhering to open source best practices
- Communicated with university to ensure the project was acceptable
- Significantly contributed to the notes for every module I took in the year

### Engineering Education Scheme | *Python, C++*

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

## ACHEIVEMENTS

---

**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, where I learned how to plan an exercise, communicate effectively, and command a team of nine other cadets

## TECHNICAL SKILLS

---

**Languages:** Python, Java, Haskell, Bash/Zsh, C, VBA, Javascript with jQuery, BASIC, PHP, HTML, CSS, SQL