

Edmund Goodman

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EDUCATION

Warwick University

BSc Computer Science with intercalated year: First year, 1st (80.8%)

Sept. 2020 – Present

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

iGEM Competitor | *HTML, SCSS, Javascript, Hugo, Python*

University of Warwick

Feb. 2021 – Sept. 2021

Coventry, England

- Designed the assessed [wiki website](#), and implemented a [model of antibiotic resistant pathogens spread](#)

Software Engineering Intern | *Python, Java, Excel with VBA*

HUBER+SUHNER Polatis

Jul. 2020 – Sept. 2020

Cambridge, England

- Refactored the VBA backend of an Excel spreadsheet used for corporate planning, created visual representations for the aforementioned planning data
- Updated a testing harness for fibre optic switches from Python 2 to Python 3, and wrote a Java implementation of [NETCONF call home](#) within the open source ONOS project

Software Engineering Work Experience | *Python, Git*

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

Computer Science Revision Guide | *Markdown, Java, Haskell, Git*

Apr. 2021 – Present

- Co-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, along with contributing to the hardware aspect, by 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, and implemented neural networks, and genetic and tree search algorithms to play simple games

ACHIEVEMENTS

Music: Trinity Guildhall Grade 8 Trumpet, ABRSM Grade 7 Singing, [Pro Corda](#) national chamber music finalist (trumpet detet), previous head chorister of Jesus College Choir

Cyber Discovery: Finalist to the “Elite” phase in 2017-19 of [Cyber Discovery](#). In 2018 from ~30,000 I was one of ~180 selected for the SANS course [SEC504](#): “Hacker Tools, Techniques, Exploits, and Incident Handling”, and it’s associated GIAC certification. In 2019 from ~70,000 I was one of ~240 selected for [FOR500](#): “Windows Forensic Analysis”

Gold Crest award, and Gold level industrial cadet: Awarded following completing the above EES project

Cadet Sergeant, Air Cadet Leadership Course graduate: Held responsibility other cadets, and was one of ~240 each year to graduate a demanding week long course at RAF Cranwell teaching practical leadership skills