

Edmund Goodman

egoodman3141@gmail.com | [linkedin.com/in/EdmundGoodman](https://www.linkedin.com/in/EdmundGoodman) | github.com/EdmundGoodman

EDUCATION

Warwick University <i>BSc Computer Science with intercalated year: First year, 1st (80.8%)</i>	Sept. 2020 – Present Coventry, England
The Perse Sixth Form <i>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*)</i>	Sept. 2018 – Jun. 2020 Cambridge, England

EXPERIENCE

iGEM Competitor <i>HTML, SCSS, Javascript, Hugo, Python</i> <i>University of Warwick</i> <ul style="list-style-type: none">Designed the assessed wiki website, and implemented a model of antibiotic resistant pathogens spread	Feb. 2021 – Sept. 2021 Coventry, England
Software Engineering Intern <i>Python, Java, Excel with VBA</i> <i>HUBER+SUHNER Polatis</i> <ul style="list-style-type: none">Refactored the VBA backend of an Excel spreadsheet used for corporate planning, created visual representations for the aforementioned planning dataUpdated 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	Jul. 2020 – Sept. 2020 Cambridge, England
Software Engineering Work Experience <i>Python, Git</i> <i>Argon Design</i> <ul style="list-style-type: none">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	Jul. 2017 Cambridge, England

PROJECTS

Computer Science Revision Guide <i>Markdown, Java, Haskell, Git</i> <ul style="list-style-type: none">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 linkManaged 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	Apr. 2021 – Present
Engineering Education Scheme <i>Python</i> <ul style="list-style-type: none">Lead the software aspect of the school “Engineering Education Scheme” entry, building an autonomous tennis ball collector to the help sports teachers - Project link, VideoImplemented 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	Sept. 2019 – Apr. 2019
Rouse Research <i>Python</i> <ul style="list-style-type: none">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 linkDerived back-propagating neural networks from first principles, and implemented neural networks, and genetic and tree search algorithms to play simple games	Sept. 2019 – Apr. 2019

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