Edmund Goodman

linkedin.com/in/EdmundGoodman | github.com/EdmundGoodman

Education

Warwick University Sept. 2020 – Jun. 2024
MEng Computer Science: First year, 1st (80.8%) *Coventry, England*

The Perse Sixth Form Sept. 2018 - Jun. 2020
A-levels in Maths (D2, eq. A), Further Maths (D3, eq. A*/A), Physics (D1, eq. high A*) and Computer Science (A*)* *Cambridge, England*

Experience

iGEM Competitor Feb. 2021 – Sept. 2020
University of Warwick *Coventry, England*

- Designed the wiki website required for the assessment of the project
- Used COPASI for computer modelling of biological functions

Software Engineering Intern Jul. 2020 – Sept. 2020
HUBER+SUHNER Polatis *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 Jul. 2017
Argon Design *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 following open source best practices, communicated with university to ensure the project was acceptable, and contributed to the notes for every module I took

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