

## Nathaniel R. Lewis Curriculum Vitae

### Personal Details

Full Name: **Nathaniel Rhys Lewis**

### Address (Home):

43 Sherborne Road  
Bury St Edmunds  
Suffolk  
IP33 2ET

e-mail: [nathaniel@lowis.co.uk](mailto:nathaniel@lowis.co.uk)  
Phone: 07468 896223  
GitHub: <https://github.com/low101043>  
Website: <https://nathaniellowis.pythonanywhere.com>

### Education

| Establishment   | From           | To        |
|---|----------------|-----------|
| University of Birmingham, Edgbaston, Birmingham, B15 2TT      | September 2019 | Present   |
| County Upper School<br>Beetons Way, Bury St Edmunds, IP32 6RF | September 2014 | June 2019 |

### Degree (September 2019 – (Expected Graduation) July 2023)

BSc Computer Science With Industrial Year (Full Time)

First Year Average: 1<sup>st</sup>

Predicted: 1<sup>st</sup>

Favourite Modules: Programming in Java (1<sup>st</sup> Year Module) (100% in coursework), Software Engineering and Building Useable Software (2<sup>nd</sup> Year Module), Artificial Intelligence (1<sup>st</sup> Year Module) (77% in Coursework), Data Structures and Algorithms (1<sup>st</sup> Year Module) (98% in Coursework)

### A Levels (July 2019)

| Subject                                    | Grade |
|--|-------|
| Computer Science                           | A*    |
| Maths                                      | A*    |
| Physics                                    | A     |
| Extended Project Qualification (July 2018) | A*    |

### GCSEs (July 2017)

10 GCSEs (One 9, Five A\*s, One A, Two 5s, One C) 1/2 GCSE (One A)

### Tech Skills

- Competent in Python and Java. Learning Haskell and C/C++.
- Working knowledge of HTML, CSS.
- Competent with Git. Have used Eclipse and VS Code IDEs.

### Technology Projects

- Year 13 Programming Project – Python (Tkinter), Git, Thonny – Project to make a game based on projectile motion and scores kept in a database. Used Tkinter to make a GUI.
- AI Project – Java (JavaFX, Junit 4), Git, Eclipse – Project that I built to implement AI algorithms. Used Git to build different features without ruining the code which worked. Used Junit 4 for testing.

- Qiskit Hackathon – A hackathon my university put on with Microsoft Qiskit where I used quantum computing and learnt a bit about Quantum Physics. Worked in a team to build the final project.

## Work Experience

| Dates                     | Company   | Notes   |
|---------------------------|---|---|
| July 2019 – November 2020 | <b>McDonalds</b> , Fiveways, Barton Mills, Mildenhall, IP28 6AE   | Holiday job   |
|                           | <i>Crew member with service responsibilities</i><br>Flexible and committed to working different hours with various job roles<br>Quick to learn and picked up new skills in a highly pressurised environment.<br>Worked with other crew members as a team to serve multiple customers at once.<br>Used mathematical knowledge in a practical situation |   |
| December 2016 – May 2019  | <b>Oxfam Books and Music Store</b> , 2 Brentgrovel Street, Bury St Edmunds, IP33 1EA  | Used for volunteering sections for Silver and Gold Duke of Edinburgh Awards |
|                           | Worked on till, pricing books, checking stock, managing float for next day<br>Flexible on working on different jobs.  |   |
| October 2016              | <b>Sci-Clone</b> , Unit 9, Forbes Business Centre, Kempson Way, Bury St Edmunds, IP32 7AR   | Two week work experience during Year 11                                     |
|                           | <i>Software Engineer in a small Software company.</i><br>Wrote a program used in the Company's larger Projects.<br>Completed within two weeks which was quicker than anticipated.<br>Worked independently in office situation<br>Used knowledge from school and expanded upon it.   |   |

## Other relevant qualifications

| Qualification           | Level   | Date          |
|-------------------------|---------|---------------|
| Duke of Edinburgh Award | Gold    | December 2018 |
|                         | Silver  | July 2017     |
|                         | Bronze  | June 2016     |
| Alto Saxophone          | Grade 5 | July 2017     |

## Interests and Activities

In my first year of university, as part of the Computer Science Society, I have participated in a Quantum Computing hackathon which developed my skills to quickly learning new aspects of Python as well as a couple of Capture the Flag competitions. I am a Christian who goes to church every Sunday and within Church Services I help with audio visual. As part of the Christian Union, I help lead a small group which enables me to develop leadership and communication skills. Completing the various Duke of Edinburgh awards shows that I have taken part in a variety of volunteering, sporting and skills based activities. I was appointed Deputy Head Boy at my Upper School and was part of the Charity Team at County which were able to raise over £15,000 during my Sixth Form. With my Saxophone I have played at many school concerts, including taking part in national competitions.

## References

### Educational

Dr Robert Handley  
Personal Tutor at University of Birmingham  
School of Computer Science  
College of Engineering and Physical Sciences  
University of Birmingham  
Edgbaston, B15 2TT  
Email: [R.J.Hendley@cs.bham.ac.uk](mailto:R.J.Hendley@cs.bham.ac.uk)

### Personal

Rev G. Russell  
Pastor of Westgate Chapel  
3 Wigston Road  
Bury St Edmunds  
Suffolk IP33 2HE  
Email: [gareth@westgatechapel.org.uk](mailto:gareth@westgatechapel.org.uk)