Lucas Loudon

Website : lucasloudon.dev
Email : lucasloudon@gmail.com

27 Ivyday Grove
London
SW16 2UZ

EDUCATION

University of Bath — Bath, UK
Bachelor of Science (Honours) in Computer Science (**2:1**) — *Sep. 2017 – July. 2020*

Bishop Thomas Grant School — London, UK
Key Stage 4-5 — *Sep. 2010 – June. 2017*

- **A-Levels**: Biology (**A**), Chemistry (**A**), Maths (**A**), EPQ - *"Should the NHS be privatised?"* (**A**)
- **GCSE**: 9 GCSEs at **A** and **A*** (including Maths and English)

PROJECTS

- **Inventory Management Application**: Created/maintaining an inventory management application for use in a jewelry workshop. Built using the MERN stack.
- **Final Year Dissertation**: "Using a Long Short-term Recurrent Neural Network to Generate Human-like Music". Utilised Keras Tensorflow to generate 'complex' pieces of music based on a given dataset.
- **Polyphonic Synthesizer**: Created a usable polyphonic synthesizer in C++ using the JUCE application framework. Includes two oscillators, a variable filter, and a volume envelope.

PROGRAMMING SKILLS

Languages: Python, JavaScript, C++, HTML, CSS

Technologies: React.js, Node.js, MongoDb, Keras TensorFlow, Git, Visual Studio Code.

SOFT SKILLS

- **Teamwork**: I have a large amount of experience working in group projects as well as in teams which has allowed me to sharpen my skills as a teammate and, when necessary, a leader.
- **Creativity**: As an individual I am drawn to situations that facilitate creativity, be it music or programming, creating something new is one of my fundamental motivators.
- **Willingness to Learn**: Learning new technologies and skills grants new avenues to create and explore, and so my desire to be creative propels my willingness to learn and improve.

EXTRACURRICULARS

J.P. Morgan Chase - Software Engineering Virtual Internship — *July. 2020 – Aug. 2020*

Due to COVID lockdown I decided to expand my skill-set by taking part in a virtual internship. Tasks included: interfacing with a stock price data feeds, use of J.P. Morgan Chase frameworks and tools, and displaying data visually for traders using react.

Bath Video Game Society — *2017 – 2020*

As part of this University society I've captained teams in several nationwide tournaments (NSE). This required me to negotiate with administrators and gather players, as well as acting as a leader in a team environment.

Kazoku Renshin Karate — *2008 – 2017*

I have practiced karate since age 10 and have competed at several competitions, both local and national. Training in this martial art has allowed me to build both discipline and confidence.

Model United Nations — *2013 – 2015*

I was an active member of my school's debate club, which led me to taking part in a Model United Nations at Regents University on several occasions. This allowed me to develop and hone my public speaking skills, making it easy for me to present my ideas to others with confidence.