

Edward Gilbert – CV

Personal details

- Edward Gilbert
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Summary:

I am finishing an integrated mathematics masters at the University of Warwick, having gained a first overall in my third year examinations. This was achieved by being highly analytical and methodical in my work.

Technical skills:

- Strong scientific programming experience with:
 - Python (numpy, scipy, pandas)
 - R (ggplot2, dplyr)
 - Lean
- Strong software expertise with:
 - Linux
 - Github
- Deep knowledge of:
 - Stochastic modelling
 - Discrete mathematics & algorithms
 - Graph theory
 - Game theory

Soft skills:

- Confident presenter with years of radio and drama experience
- Organizational and project management skills gained from charity fundraisers, volunteering, and the leadership of university societies.

Achievements:

- Wrote an essay on combinatorial game theory after having self-learned the subject in second year. The essay showed links between two games and showed how strategies could be transferred between them. This involved strategic thinking, problem solving and research.
- I created a project comparing the efficiency of the Hu-Kang-Othmer and the Gillespie algorithms for stochastic modelling. This involved stochastic modelling, setting up testing scenarios, as well as gathering and presenting data.
- Developed stochastic models for exploring how varying different key parameters can affect the persistence of diseases collaborating with Professor Matt Keeling. It involved use of diffusion approximations, as well as a deep understanding of stochastic processes. The project required not just rigorous analytical skills, but a conscientious detail oriented approach due to the project's scale.

Career history:

- Have worked at a local arcade for Japanese multinational Bandai Namco for the past three summers. This involved not just punctuality, reliability and flexibility, but also interactions with customers, a highly demanding fast paced environment, as well as practical problem solving.

Qualifications:

- Maths, Further Maths, Physics and Economics A-levels all at A*
- Duke of Edinburgh silver award.

Extracurricular activities:

- President - Warwick Offbeat society - March 2023 – March 2024: Involves organizing various events and making sure all aspects of the society from marketing to welfare are running smoothly and as a team. This helped build confidence and teamwork skills.
- Presenter – Radio at Warwick – September 2022 – Present: Required me to be highly articulate, plan shows in advance, present on air, as well as manage problems when various technical issues have arisen.
- Keen interest in the worlds of global economics, business and assets driven from taking various economics modules at university as well as consuming media and papers surrounding the subject.
- Keen interest in technology, computer science and programming, encouraged by taking various modules on the subject, as well as having learnt a lot of discrete mathematics beyond university.