
Education

University College Cork

Higher Diploma in Applied Computing Technology
BSc. Mathematical Sciences (First-class Honours)

September 2021 – May 2022
September 2016 – May 2020

Skills

Python, SQL, Flask, Git, HTML, CSS, JavaScript

Projects

Message Board (Python, Flask)

- Built the back-end for a message board website, with data stored in a SQLite database.
- Implemented RESTful API, including authorization/authentication via JSON Web Tokens.

ASCII Image Generator (Python)

- Created a command line program which takes in an image and outputs the image using ASCII letters.

Mathematics Final Year Projects: Elastic Curves / Elementary Cellular Automata

- Carried out independent library research and assimilated details of theorems and theories.
- Wrote concise, 21-page reports discussing the background and results of the research studies and gave a presentation of the findings to an audience of 30.
- Wrote the final reports in \LaTeX and Matlab was used to plot the images.
- Designed a C++ program which modeled the history of an elementary cellular automaton given an initial state.

Experience

Private Tutor

Self-employed

September 2016 – Present

- Held private tutoring sessions with Junior Certificate and Leaving Certificate students in the subjects of Physics and Mathematics.

Teaching Assistant

University College Cork

September 2017 – May 2020

- Organized and prepared weekly tutorials for up to 50 first-year students in the topics of Calculus and Real Analysis.

Summer Research

University College Cork

June 2019 – August 2019

- Received €2000 as part of the SEFS Summer Research Bursary by UCC to conduct a research project.
- Performed independent study on the topic of Elastic Curves. Continued the study for the Final Year Project.

Miscellaneous

- Awarded the title of UCC College Scholar for exceptional performance in examinations, resulting in a First-class Honours.
- Participated in the Mathematics Enrichment Program to expose secondary-level students to a wide range of mathematical topics.