JAKE FARRELL

1.1 3rd Year DCU Computer Science Student

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SUMMARY

Redbrick Chairperson | DCU MPS Webmaster | DCU Fotosoc Webmaster | 2x Class Representative | Huawei Seeds For The Future Global Winner 2022

I am passionate, hardworking, creative and a dependable team player. I enjoy working on projects in my spare time and am always ready to tackle something new.

SKILLS

Languages: Python, C, HTML, CSS, R, Shell, Java, Prolog, SQL, JavaScript, Dart

Technologies: Git, GitHub, Linux, RStudio, Docker, Django, Make, Hugo, Bootstrap, React, Tailwind, Firebase, MongoDB, WordPress, Svelte, Express, Node, Flutter

EDUCATION

2022 - Present   **BSc Computer Science, Dublin City University**   **Dublin City University**
- Year 2 Grade: 1.1 (Programming IV (OOP): 95%, Introduction to DevOps: 95%, Full Stack Development: 100%)
- Class Rank: 7th out of 130+ students
- Activities and Societies: Redbrick, Media Production, Photography, DCU Solar Racing

2016 - 2022   **Leaving Certificate, Ashbourne Community School**   **Ashbourne Community School**
- Leaving Certificate Points: 543
- Activities and Societies: ACS Amber Flag Chairperson 2021-2022, Green Schools, Digital Leaders
- Awards: Engineering Student of the Year 2022, Award of Excellence 2019, 2022, Green Schools Award 2022

PROJECTS

Django, Bootstrap   **DCU Media Production Society Website**   https://dcumps.ie
Created a custom website for DCU's Media Production Society using HTML, CSS, Bootstrap and Django, deployed via Docker and built with GitHub Actions. It features blogs, automated content for upcoming events and timetable data for DCU's radio station - DCUfm, details about the history of MPS, committee contact information, sponsor lists and award collection.

Debian, Docker   **Home Server & VPS**   https://docs.jakefarrell.ie
Configured a home server and VPS with a combined total of 30+ dockerised services. The home server operates a network file server, VPN, and media-related services such as Plex and PhotoPrism. The VPS contains public-facing services which include multiple websites, analytics and screenshot management tools. Created a documentation website using MkDocs to showcase configuration files and services to inspire others.

React, Firebase, TailwindCSS   **DCU Fotosoc Website**   https://dcufotosoc.jakefarrell.ie
Currently developing a custom website for DCU Fotosoc, DCU's Photography Society using React and TailwindCSS, with Firebase for the backend. It features auto-updating event information, photo gallery, current committee list with contact details, and previous committee history. The store page uses the Stripe API to allow members to purchase merchandise and yearly photo book collection.

Python, Flask, REST API   **Clubs & Societies API**   https://github.com/CheeseLad/clubsandsocs-api
This REST API provides information about clubs and societies from universities that use the Assure Memberships Platform. It's hosted on a Flask web server, with Swagger being used to render the dashboard. This API is utilised in the Media Production & Fotosoc websites to display event information to members.

C, Makefile, OS   **Custom Shell College Project**   https://github.com/CheeseLad/ca216-myshell
Developed a custom shell in C for my Operating Systems module. It supports executing commands both in the foreground and background along with I/O redirection. Wrote documentation on how to use the shell and built-in commands.

EXPERIENCE

03/2024 – Present   **Chairperson**   **Redbrick - DCU's Networking Society**
- Leading the weekly committee meetings, ensuring order and timekeeping.
- Overseeing the running of the society as a whole and enabling each member of the committee to complete tasks.

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Conflict Resolution  /  Team Communication  /  Coordination
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03/2024 – Present   **Webmaster**   **Fotosoc - DCU's Photography Society**

- Developing a full stack website built using React & Firebase to showcase all aspects of DCU Fotosoc.
- Utilising the Stripe API to allow for the sale of merchandise and yearly photo book.
- Liaising with the committee to develop the website with the society's vision in mind.

`Full Stack Development  /  UI Design  /  Database Management`

04/2023 – Present   **Webmaster**   **DCU Media Production Society**

- Built a custom website using Bootstrap & Django for the society (https://dcumps.ie).
- Implemented a live donation bar for the yearly 24-Hour Broadcast which raised over €12,800 for Jack & Jill Children's Foundation.
- Configured an email system that provides committee members with professional emails.
- Maintaining a WordPress website with over 6,000+ articles and over 13+ years of content for The College View newspaper (https://thecollegeview.ie).
- Building a Flutter iOS and Android app for The College View that queries the WordPress REST API for article and page data.

`System Administration  /  User Experience (UX)  /  Web Design`

03/2023 – 03/2024 **Secretary**   **Redbrick - DCU's Networking Society**

- Recorded weekly meeting minutes and reminded committee members of action items.
- Wrote the weekly newsletter informing members about society news and upcoming events.
- Developed a custom newsletter generator to increase productivity which delivered information to members faster.
- Prepared over 40+ committee meeting minutes and newsletters for the Redbrick website.

`Minutes & Newsletters  /  Time Management  /  Communication`

08/2022 – Present   **Class Representative - COMSCI1, COMSCI2**   **DCU Students' Union**

- Responsible for solving any problems that the class group may have.
- Relaying important information/changes to the class group.
- Working with lecturers and faculty to resolve issues regarding assessments, timetables, and examinations.

`Leadership  /  Communication  /  Problem Solving`

AWARDS

01/2023	**Tech4Good Global Competition Winner 2022 - Team Síolta with group project Roll On**	**Huawei**
11/2022	**Tech4Good Ireland Competition Winner 2022 - Team Síolta with group project Roll On**	**Huawei Ireland**
08/2022	**Seeds for the Future 2022 Scholarship Recipient**	**Huawei Ireland**

HOBBIES & INTERESTS

Golfing, Hiking, Cycling, Scouting, Athletics

Huawei TechArena Ireland 2023 Hackathon Participant

Headstarter Software Engineering Fellow

LANGUAGES

English - Native, **French** - Leaving Certificate, **Irish** - Leaving Certificate