Joseph Egan

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Professional summary

- 3rd year computer science and software engineering student that has a passion for software engineering, cyber security and space exploration.

Education

- 2022 - Current Date
- Maynooth University, Maynooth, Kildare
- **B.S. (Honors) Computer Science and Software Engineering**
- Additional First-Year Subject: **Electronic Engineering**

Skills:

Programming languages

- (Currently studying) **Java, HTML, CSS, JavaScript, C**
- (Self-studying) **Python**
- (Previously studied) **Processing**, **Prolog, SQL**

Software

- Eclipse, Visual Studio code, IntelliJ, Bluejay, Mule and Microsoft Office

Projects:

Full-Stack Web Application with CRUD Functionality -Language: **PHP, HTML**

- Designed a full-stack web application for managing user information using a PHP back-end and HTML front end, hosted on an Apache server via XAMPP.
- Various PHP files were used to provide CRUD functionality to the application which allowed database (MySQL provided by XAMPP) manipulation through API requests taken from the HTML frontend that implemented Ajax.
- Utilized XAMPP to provide a database implementation and locally host code to ensure successful implementation and functionality

Environment sustainability Game-Language: **Processing**

- User-input based game incorporating advanced collision detection
- Random imported pictures of rubbish would spawn across the terminal at random locations it was then the users challenge to click drag and drop each item in to the correct bin before the pollution counter reached above a set limit.
- The pollution counter was an int variable that would increment by 1 depending on how many items of rubbish were on the screen
- A background image and music were imported

Star gazing map- Language: **Python**

- Implemented the library matplotlib to plot and graph star constellations

Basic Fire wall- Language: **Python**

- Utilised libraries such as scapy to intercept and analyse network packages.
- Protects against DOS attacks Aswell as receiving traffic from unwanted ip addresses

Work History

Customer care assistant, 07/2022 – present date

Intel Compass Canteen – Kildare, Ireland

- 2 years' experience working in a fast-paced canteen serving over 2000 customers on the Intel campus daily.
- Proficient in customer relations and satisfaction.

Computer Science Summer Camp demonstrator, 17/6/2024-21/6/2024

Maynooth University - Kildare, Ireland

- Successfully selected to demonstrator and supervise a beginners computer science summer camp hosted by Maynooth University
- Aided young aspiring computer scientists with the content of the summer camp with various topics such a micro bits, Arduino and Finch robots

Certificates/Achievements

- Safe pass course completed
- Part of Dunboyne GAA's senior hurling squad
- Maynooth record holder for the Triple jump and 4x400 relay
- Driving license

Interests

- Hurling
- Hill walking
- Athletics
- Weightlifting