**Alan Byrne**

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***SUMMARY***

I have worked in multiple groups on projects using Python’s Django Web Application Framework, and am currently in search for an entry level position in order to enhance my skills and further my knowledge in the area of IT. I have strong interpersonal skills and work well in a team environment.

***IT SKILLS***

* Proficient in the use of Python, Java & C#.
* Deep knowledge of SQL queries to an intermediate degree using Oracle 11G.
* Used to creating and designing database schemas through web development.
* Competent in front-end development through the use of HTML5, CSS and JavaScript.
* Can carefully analyse data using Excel or through the use of the Python library pandas.
* Ability to design systems using UML through the use of Visual Paradigm.
* Avid user of Windows and Linux operating systems for system administration.
* Aptness for designing, building and troubleshooting a network containing routers, switches and multiple host devices using packet tracer.
* Administer an Oracle 11G database server using Enterprise Manager and related SQL commands.
* Strong understanding of decentralized project management systems such as Azure and GitHub, as well as the open-source distributed version control system, Git.
* Good knowledge of Streamlit, a data visualisation web application framework.
* Strong understanding of the Django web application framework.

***EDUCATION & QUALIFICATIONS***

*2020 – present* **BSc in Computing with Software Development**

**3rd Year Modules**: Data Structures & Algorithms (**A**); Cloud Services & Distributed Computing (**A**); Client-Side Web Development (**A**); Server-Side Web Development (**B+**); Operating Systems (**A**); Big Data Technologies (**A**);

**2nd Year Modules**: Software Development 3 (**A**); Software Quality Assurance and Testing (**A**); Advanced Database Technologies (**A**); Network Fundamentals (**A**); Client-Side Web Development (**A**); Discrete Mathematics 2 (**A**); Software Development 4 (**A**); Project (**A**); Data Administration and Analysis (**B+**); Routing & Switching Essentials(**A**); Information Security (**A**); Management Science (**A**);

**1st Year Modules**: Visual Design and Used Experience (**A**); Computer Architecture (**A**); Business & Information Systems (**A**); Systems Analysis (**A**); Software Development 1 (**A**); Critical Skills Development (**A**); Operating Systems Fundamentals (**A**); Discrete Mathematics 1 (**B+**); Software Development 2 (**A**); Social Media Communications (**A**); Database Fundamentals (**A**)

**Ordinary Diploma GPA:** 3.92 / 4.0

**Significant Projects undertaken on campus:**

**Game Selling Ecommerce Web Application**

**Description**

A team project involving the development of a Game Selling Website using the Django Web Framework. Users could buy games and also comment on, and/or rate games they liked or disliked. Features included account authorization, product purchasing, vouchers, user account administration, site usage statistics and user purchasing statistics both of which were extrapolated through the use of graphs. Customisation and personalisation of user profiles was also included.

**Challenges faced:**

* Implementing a fleshed-out voucher system with time validity components and banners.
* Time management between testing various components and improving their functionality.

**Overcoming these challenges**

I found that keeping the team informed on a regular basis via online meetings during the busy academic week kept us all on track in order to meet the deadlines outlined for us. This required careful time management and co-ordination by all team members involved.

***WORK EXPERIENCE***

*May 2022 –September 2022* IT Internship GridBeyond

**Company Description:** Gridbeyond provides wireless energy management and control systems for retail, commercial and industrial users. <https://gridbeyond.com/>

**Main Responsibilities**

* Migrating the company’s current IT change management system from a Microsoft Power App to a more flexible service desk application called Freshservice.
* Developing Solar PV Forecasting capabilities using Python for a Portuguese Energy Utility company, one of GridBeyond’s investors, Energies de Portugal. This was done by comparing various 3rd party weather forecast API’s whilst simultaneously exploring open-source solutions such as ‘PVLIB’ and ‘Solar Forecast Arbiter’.

*January 2023 – August 2023* IT Internship GridBeyond

**Company Description:** GridBeyond provides wireless energy management and control systems for retail, commercial and industrial users. <https://gridbeyond.com/>

**Main Responsibilities**

* Working on projects which require a broad set of skills ranging across both the data science and data engineering disciplines.
* Providing support on current and past pythonic projects built by others and myself within the company.
* Giving brown bag sessions to the broader team on topics of interest such as the Python programming language and unit testing.
* Building projects which help automate repetitive tasks undertaken by people outside of the IT department.
* Supporting the deployment of various individual and team-based projects.

***INTERESTS & ACHIEVEMENTS***

**Sporting:**

* Athletics enthusiast. Member of Brother’s Pearse A.C. from 2014-2019 and also current member of Tallaght A.C. Qualified for the All Irelands in Athlone for the 100m. Won a silver medal in the Dublin’s for high jump, and gold for discuss throw.

**Professional:**

* Attendee of CoderDojo in primary school.
* Certificate of completion for JavaScript Course on Codecademy. (On LinkedIn)
* Certificate of completion for C# Course on Codecademy. (On LinkedIn)
* Certificate of completion for HTML, CSS, and JavaScript For Web Developers course on Coursera. (Showcase also on LinkedIn)
* Certificate of Excellence AWS Cloud Computing Competition. (On LinkedIn)
* Certificate of Fundamentals of Deep Learning by NVIDIA (On LinkedIn)

**Posts of responsibility:**

* Made class rep for my second year of college.

Text, letter

Description automatically generated**REFERENCE**: Patricia Magee, 2nd Year Software Development Lecturer: (Please see below.)