Alan Byrne

Computing ◦ Software Development Graduate

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---------------------------- Professional Summary ------------------------------

Enthusiastic tech innovator with a passion for elegant solutions to complex problems. Committed to continuous learning and staying ahead of emerging trends. Thrives in collaborative environments and approaches challenges with analytical rigor.

------------------------------- Education & Qualifications ----------------------------------

BSc Computing with Software Development:	GPA **3.96** / 4.0		September 2020 – May 2024

4th Year Modules:

Final Year Project Thesis	A	Algorithms & Computation	A
Computational Theory	A	Enterprise Performance Architecture	A
Enterprise Application Development 1	A	Enterprise Application Development 2	A
Applied Machine Learning	A	Applied Artificial Intelligence & Deep Learning	A
Interactive Media Design	A	Information Management	B+

---------------------------- Significant Projects Undertaken ----------------------------------

4th Year Thesis: Jira-Collab, an android project management app built for IBM using the Ionic-Angular Framework.

- Issue Creation, Deletion.
- Scrum & KanBan Project Management.
- Task Collaboration Via Issue Commenting.
- FireBase's FireStore, Real-time Issue Related Chat Messaging.

- Issue Assignee Reassignment.
- Team Progress Tracking.
- Issue Progress Updates.
- FireBase Push Notifications for Issue Updates & Chats.

2nd Year Project: Collaborated on a second-year, three-person Django-based game selling web-platform.

- Game Purchasing.
- Rating & Commenting.
- User Profile Customization.
- Admin Controls.

- Timed Vouchers.
- Purchasing Statistics with Graphical Analysis.

--------------------------------------- IT Skills --

Programming:	Python, Java, C#, C++, Typescript, JavaScript, Rust, Lua.
Web & Mobile:	HTML5, CSS, Angular, Ionic.
Databases:	SQL (Oracle 11G), .NET for schema design, Google Firebase's Firestore NoSQL database.
Data Science:	Python libraries (Pandas, Numpy, Scikit-Learn), Streamlit for visualization.
Cloud & DevOps:	Azure, GitHub, Git, GCP Cloud Functions & Cloud Run.
AI/ML/DL:	WSL2, Jupyter, NVIDIA CUDA, Tensorflow.
Other:	UML, Windows/Linux automation, Network Design (Packet Tracer), NeoVim.

---------------------------- Work Experience ◦ GridBeyond --------------------------------

About Company: GridBeyond is an energy aggregator providing AI energy management solutions.

IT Summer Internship — *May 2022 – September 2022*

Responsibilities:
- Migrating the company's current IT change management system from a Microsoft PowerApp to a 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.

College Work Placement — *Jan 2023 – August 2023*

Responsibilities:
- Worked on projects requiring skills ranging across both Data Science and Engineering.
- Providing support on current and past pythonic projects built by others and myself.
- Building projects helping automate repetitive tasks undertaken by people outside of IT.
- Optimized the National Grid Data Pipeline, achieving 100% uptime, improving system reliability.

----------------------------------- Achievements ---

Professional:
- Certificate for JavaScript Course
- Certificate for C# Course
- Certificate for HTML, CSS, and JavaScript For Web Developers
- Certificate of Excellence - Cloud Computing Competition 2022
- Certificate for Fundamentals of Deep Learning by NVIDIA