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 creativity and analytical rigor.

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

BSc (Honors) Computing with Software Development: | GPA 3.96 / 4.0 | *2020 – 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 ----------------------------------

Final Year Project 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.

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

---------------------------------- Work Experience ∘ GridBeyond ----------------------------------

About The 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.
- ➢ Supporting the deployment of various individual and team-based projects.

---------------------------------- 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