

## Professional profile

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The work I do drives me as an individual; I am extremely enthusiastic towards all aspects of Computing and problem solving. I find enjoyment in even the most mediocre of topics. I do not believe in limiting myself- If I do not understand something, I will in time. Hard working, resilient and dependable; my competency and intuition is self-demonstrating.

Programming; my most enjoyable pastime, presents itself within all aspects of my work- I have countless projects which I do for my own experience and enjoyment, this ranges from contributing to open-source software on GitHub, to creating my own servers and projects, examples of this include a Cryptocurrency Casino and craftopia.online- a popular gaming server and community, and PPlayer- and unreleased media and content management application.

During my time at IGD- I gained experience within an enterprise environment, I learned the importance of clean and testable code, and the necessary skills required to make profitable business decisions based on estimated savings and ROI. Working within an office environment allowed me to develop skills in working in a group and managing tasks between various departments and people.

## Technical skills

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- Application Development
- Machine Learning
- Neural Networks
- VCS (Git, SVN)
- Process Management
- Big Data
- Telemetries
- Data Analysis
- Systems Architecture
- Automation Tools
- MVC, MVP, MVVM
- Design Patterns
- Cellular Automata
- Agile
- RDBMS, NoSQL

## Programming Skills, Abilities & Frameworks

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- Java
- HTML / CSS
- C / C++ / C#
- Python
- Scala
- Network Security
- LAMP / LEMP Stack
- Terminal (Bash & Batch)
- MySQL
- WebSockets
- Avro, HBase, Pig, Lucene
- Redis
- Laravel
- CakePHP
- Electron
- Ruby
- JavaScript
- PHP

## Software & Services

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- Eclipse
- Excel
- Photoshop
- IntelliJ
- Google Analytics
- NodeJS
- Composer
- AWS Services
- Google Cloud
- Kubernetes
- TensorFlow
- VSCode
- \*nix-based systems
- NPM / Yarn
- Linux Servers
- Homestead
- Blockchain
- VIM
- Mandrill / MailChimp
- Windows
- Nginx

## Career summary

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**March 2015 – Present**

**Interior Goods Direct  
Full Stack Developer**

Starting as just a 2-week work experience, the Company requested I work for them. Abilities spoke for themselves, and I was soon granted admin access to all corporate data, files, and server management.

The company is an umbrella company for 12 sub-companies, each manufacture various types of window furnishings which sell through their respective e-commerce sites.

Keynote: During University I was hired to work remotely part-time for my studies, and during lockdown I was employed as a contractor due to business uncertainty.

### *Key responsibilities*

- Ensuring the uptime and acceptable page and query speed of the websites.
- Identifying and finding solutions to errors and bottlenecks within unmaintainable code.
- The creation and management of a dashboard which manages production statistics & quotas.
- Contacting and visiting various distributors to investigate their systems, to apply to our own.
- Use various services and API's to create automatic dynamically typed business emails.
- Lead the development and deployment of a new Customer Service Management Platform.
- Creating and maintaining a database regression system, tracking, and reporting errors in data.
- Creation and implementation of action plans aimed to increase efficiency in production to reach quotas.
- Miscellaneous tasks, if a co-worker was unable to do something, I was the one who was capable.

### *Key achievement/projects*

- The `Color System` - A project designed to auto categorize products by colour by sampling pixels within product images, while also removing ambiguity resulting from light conditions, image quality and several other factors. This is used across all sub-companies to create a better user experience by helping the user locate their requirements.
- The `Regression System` – Locates inconsistencies within all gathered data, fixes them if possible, if not, it will alert the appropriate people to fix them. This drastically reduced error rates from being unmaintainable to being of minimal concern.
- The `Production System` – Allows management to set quotas for employee's and track their progress in real time. Identifying every product leaving the manufacturing line and displaying the statistics in an easy-to-understand visual representation. This allowed managers to optimize their staff ensuring minimal losses.
- The `Dispatcher` – Creates consignment labels depending on the required courier for the product, this software is used on every floor during the final stages of production for when an item is ready to be dispatched.
- Production Software – Several different applications which allow the user to scan an order barcode to send binary data to a production machine over a serial data connection. This achieved a 10% increase in production output for each process and item type- examples being, Back Stop Tool, TS2000, and Rollers Cutting Machine.
- During a corporate-wide crisis in which orders were not being processed, my manager asked for my help, in less than 5 minutes I wrote a script to temporarily fix the issue, this stopped all further losses in revenue, allowing us to investigate the real problem.

**March 2020 – Present**

**<https://craftopia.online/>  
Self-Started Business & Hobby**

A hobby project which has attained over £1800 in revenue, serves over 4000 players, and 200 regular users. Initially starting out as a fun project to evaluate upcoming web and software tools- and to gain better experience in various services such as Redis, Websockets and Laravel Livewire. It has now become a fully-fledged business model which can operate without intervention.

### *Key responsibilities*

- Ensuring 100% uptime between the Website, Game-Server, and various services. (MySQL, Redis, etc)
- Creation of a sustainable development life cycle and deployment process.
- The development of new features for both the website and in game.
- Creation of telemetries and data dashboards for analysis of key correlations and trends in data; creating predictions of key areas of improvement, for which strategies can be established and deployed.
- Creation of a sustainable delegation hierarchy and organic advertisement automation, involving the recruitment and direct management of staff positions within the company.
- Web Security, preventing XSS attacks, Network Security, mitigating DDoS attacks.

## Education and qualifications

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2016 – 2020	De Montfort University, Leicester		
		BSc Computer Science First Class with Honours	
		Modules include:	
		Big Data	
		Data Mining	
		Fuzzy Logic and Knowledge based systems	
2013 – 2015	Greenhead College		
	A-Level	Computing	B
	A-Level	Mathematics	B
	A-Level	Adv Mathematics	D
2009 – 2013	Shelley College		
	GCSE	Computing	A
	GCSE	Mathematics	A
	GCSE	Further Mathematics	B
	GCSE	Physics	B
	GCSE	Chemistry	B
	GCSE	Biology	B
	GCSE	English	C
	ONAT	ICT	Dist
2007 – 2009	Kirkburton Middle School		
		United Kingdom Junior Mathematical Challenge	
	2009	Best in School	
		Gold Award	
	2008	Silver Award	