

# Conor Burns

## Curriculum Vitae

### Personal Profile

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An ambitious, enthusiastic, and technically focused Software Developer with a breadth of knowledge primarily in Java as well as PHP, HTML, CSS, Linux, and Python. Recently has gained excellent experience in IT/Network Security and received the Oracle Certified Associate, Java SE 8 Programmer certificate. Completed a Master's in Software Development at Queens University and a MA Hons in Business and Finance at Heriot Watt University. A fast learner, creative with an aptitude for problem solving. An exemplary track record of organization, time management and meticulous attention to detail.

### Spirit AeroSystems Dec 2021 – June 2022

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**Joined Spirit AeroSystems to assist both their IT and Network teams during an overhaul of company cyber-security and network infrastructure after an acquisition.**

- Working in a team, built, repaired, replaced, and monitored around 3000 active legacy/modern machines between 5 different workplace sites (factory and office).
- Operated as an admin to fix user related incidents as well as service requests through the asset management software and ticketing system Maximo.
- Established and maintained digital communication software, including email, user logins and passwords. This included setting up new employees and troubleshooting existing ones.
- Part of the software review team assessing viable replacements or additions for factory operations and conducting research on network products/services.
- Part of the software packaging team testing new software to be deployed on Spirits domain joined systems.
- Oversaw installation, configuration, maintenance, and troubleshooting of network connected end-user hardware, software, and peripheral devices.
- Installed, configured, and maintained network cabling and other networking equipment such as hubs, switches, and UPS.
- Worked in close cooperation with Systems Analyst and Lead Information Technology Technician to facilitate management of computer systems.
- Documentation and utilisation of data and password retrieval processes.
- System and Network Migration upgrading to windows 7/10 and movement towards updated cloud-based networking which involved network design and capacity planning.
- Open line with Dell repair team to organise part delivery, repair requests and troubleshooting.

### Professional Employment

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Developed a range of skills, work ethic and discipline whilst working part time in the hospitality sector.

Data Analyst / IT, Spirit AeroSystems	<b>Dec 2021 – June 2022</b>
Christmas 2019, Bar Staff / Waiter, Belvoir Park Golf Club – Belfast	<b>Jun 2019 – Sep 2019</b>
Bar staff / Waiter, Rota – Edinburgh	<b>Aug 2018 – Apr 2019</b>
Shop Assistant / Delivery Assistant, CS Suppliers – Belfast	<b>Jun 2018- Sep 2018</b>
Pianist, Dobbie's Restaurant – Belfast	<b>Jul 2017 – Aug 2017, December 2017</b>
Bar Staff / Waiter, Club Espionage – Edinburgh	<b>Jun 2017- Jul 2017</b>
Bar Staff / Waiter, The Three Sisters – Edinburgh	<b>Feb 2016- Jun 2017</b>
Bar Staff / Waiter, Albany Bar and Restaurant – Belfast	<b>Jul 2016- Aug 2016, Christmas 2016</b>
Kitchen Porter / Waiter, Belvoir Park Golf Club – Belfast	<b>Jun 2016– Jul 2016</b>
Drama Instructor / Teacher, Drama Works – Belfast	<b>2015 – 2016</b>

### Education

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**Queens university Belfast: 2020 – 2021**

**MSC Software Development**

**Notable Modules:**

- Databases (SQL)
- Software Engineering
- Programming (Java)
- Web Development (HTML)
- Computing Foundations
- Principles and Practices of Machine Learning (Python)
- User Experience Design
- Security Networks

**Heriot Watt University: 2015 - 2020**

**MA (Hons) Business and Finance: 2.1**

**Notable Modules:**

- Risk Management and Derivatives
- Equity Markets and Fund Management
- Mergers and Acquisitions
- International Bond and Currency Markets
- Agency Theory and Corporate Governance

**Methodist College Belfast: 2008 - 2015**

**A Levels:** Mathematics (A), Physics (C), Geography (C)

**Interests, Skills, and Achievements**

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**Sport** – My most regular sports would be golf, tennis, table tennis and squash. Throughout my time at university I played pool for the Heriot Watt 2<sup>nd</sup> team and won the Scottish University Pool Association Team Trophy at the Scottish University SUPA event.

**Music** - I took Grade 8 Level a number of years ago and have gone onto develop my skills and style playing a range of musical genres. I have awards in both Grade 5 music theory and Grade 5 Piano.

**Other** - In my final year I was also President of the Heriot Watt Poker Society which required me to set up and manage weekly events for around 100 members. I love to play chess and have reached a 1900 unofficial Elo rating.

**Computing/ICT**- I possess good working knowledge and experience using Microsoft apps and services such as Word, Excel, PowerPoint, OneDrive, Outlook, and Microsoft Teams.

**Additional Qualifications**

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**Oracle Certified Associate, Java SE 8 Programmer** - Java SE Programmer I exam (1Z0-808)

**Duke of Edinburgh** - Bronze & Silver Awards

**Speech and Drama** – Merit in Grade 7 Silver Medal

**Piano** – Awards in both Grade 5 music theory and Grade 5 Piano.

**Academic Experience:**

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**Databases:**

Creating and operating a MYSQL database, use of PHP commands and SQL functions, Data Security and Encryption. ER Notation, Normalization, Foreign Keys, Sub Queries, Joins and Transactions.

**Programming (Java):**

Basic principles of programming, Principles of object-oriented design (objects, classes, methods, interfaces, abstraction, inheritance, encapsulation, and polymorphism) and advanced principals (exception handling, threading, data collection).

**Software Engineering:**

Developed an understanding of the process to take a significant software development project from requirements analysis through to software delivery. Worked as a team to design a text game in Java. Project Scheduling, Requirements Engineering, Domain Models, UML Diagrams and Testing Strategies.

**Web Development:**

Client-side web technologies: HTML, CSS & JavaScript. Server-side technologies: PHP with MySQL. Data-driven web-based development building an interactive and dynamic web-based system. Constructed a website that rated movies on Netflix. Allowed account creation, database queries, modifications and implemented security precautions. Used Postman as an API platform and for testing.

**Computing Foundations:**

Computer design and architecture, information processing, data storage and manipulation, algorithms, and algorithmic solution of problems (sorting/searching) , networking and security, software development and testing. Practice using Linux learning all basic commands.

**Principles and Practices of Machine Learning:**

Methods including Clustering, Classification, Neural Networks, Principal Component Analysis (PCA) and Non-Negative Matrix Factorization (NMF). Built using R programming for statistical computing and Pytorch as the machine learning framework. Use of Anaconda, Linux and Python3 on Jupyter Notebook.

**User Experience Design:**

Worked in a team of 5 to design a User Interface for a smart mirror. Developed understanding on how to present information on a screen efficiently and aesthetically.

**Secure Software Networks:**

Set up a virtual machine through the Linux distribution ubuntu to replicate cyber-attacks and security precautions using tools such as Mininet, Wireshark, Snort, Nmap and FileZilla.

**Java SE Programmer I exam (1Z0-808):**

Helped build upon my foundational understanding of the language. A heavily syntactical exam which improved my writing but also gave me greater insight into the inner workings and main functional ideas behind the languages application to problem solving.

**Misc:**

Management of a git repository. Experience with Gitbash, Github and Gitlab.