# CONOR SHIRREN

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www.linkedin.com/in/Conor-Shirren1 in

Bachelor of Engineering, Master of Engineering 🎓

## ☰ OBJECTIVE

An innovative, energetic, motivated, and positive individual who is looking to advance their career in the realm of Software Development.

I have a background in mechanical and electronic engineering, but my focus now lies in software development and automation. Finding ways to create applications and automate tasks through code is my passion.

I am proficient in C#(.NET Core), JavaScript, TypeScript, NodeJS, Angular, SQL & MongoDB. I also have experience with Python, Java, C/C++, Embedded Software and Data Analytics.

I am a hard working individual, who is able to quickly adapt to new technologies and concepts.

- Some of my personal projects can be found here: https://github.com/ConorShirren

**Recipient of the 2019/2020 Intel Masters Scholarship for Computer Engineering @ DCU**

## 🛠 KEY SKILLS

- C#.NET Core 2/3
- Angular 7.0+ / TS
- SQL & MongoDB
- RabbitMQ
- Redis
- Swagger API Design & Documentation
- RESTful Services
- High level of proficiency with TCP/IP (Wireshark)
- Python Scripting and Task Automation
- Proficient with JavaScript & Node.JS
- Web Dev: HTML, CSS, XML
- Object Oriented Design: C/C++, Java

- Linux/UNIX (Ubuntu, Debian)
- Experience in troubleshooting a Global Corporate Network Infrastructure (ITIL)
- Strong teamwork skills
- Familiarity with CI/CD
- Version Control – Git (GitHub/Gitlab/BitBucket)
- Jira (Atlassian Suite)
- Machine Learning & Data Analysis
- Other Interests: Blockchain, Virtualization Technologies & Cloud Computing, Docker & Kubernetes

## EDUCATION

### Master of Engineering – Electronic/Computer Engineering, DCU| H2.1 (3.7 GPA)

2018 – 2019

Achieved a H2.1 Master of Engineering, in Electronic and Computer Engineering with a major in IoT (Internet of Things). This innovative major addressed the emergent significance of the design/networking of Internet-connected devices and technologies. Modules currently being undertaken include:

- Object Oriented Programming (*C/C++, Java*)
- Web App Development (*HTML, CSS, JavaScript, SQL, Cloud Computing*)
- Connected Embedded Devices (Embedded Linux & Networking)
- Network Stack Implementation (Networking Support in the Linux Kernel)
- Data Analysis & Machine Learning (*Python*, Scikit-learn)

Some sample projects undertaken include:

- Energy Efficient P2P Blockchain application for IoT devices [Master's Thesis] (JavaScript, NodeJS, C++)
- Machine Learning Project to classify a dataset of emails into spam and not-spam several classification modules were tested and compared (*Python*, Scikit-learn)
- Embedded Software project to display the orientation of a gyroscope wired to a Raspberry Pi 3 on an interactive GUI (C++, Linux, Qt)

### Bachelor of Engineering – Mechatronic Engineering, DCU| H2.1 (3.7 GPA)

2014 – 2018

Achieved a H2.1 Bachelor of Engineering, specialising in Mechatronic Engineering. In this degree, the latest technology in electronics is utilised to design more intelligent robotics and machines.

Key Modules

- Control Systems Analysis (MATLAB)
- Digital & Analog Electronics
- Electromechanical Systems & Robotics
- Image Processing & Computer Vision (Matlab)

### Secondary School, Dunshaughlin Community College, Co. Meath | 490 Points

2008 – 2014

## EXPERIENCE

### Software Development Engineer | eCOMM Merchant Solutions, Ireland

FEBRUARY 2020 – PRESENT

eCOMM is a dynamic, one stop shop, payments gateway, processor and acquirer dedicated to providing merchants with flexible payment acceptance solutions. Working as a Full-Stack Developer using: C#.NET Core, Angular 7+, MongoDB, SQL, RESTful API.
Responsibility include:

- Write and implementing effective, re-usable, secure code for the eCOMM Application Product Set
- Integrate with Internal and External RESTful API's & Web Services
- Carry out Unit Testing and Code Debugging
- Collaborate with designers and other teams to enhance the existing product offering and bring new products to market

- Comply with all Company Controls including PCI-DSS

### Network Engineer | General Motors, Dublin, Ireland
AUGUST 2019 – FEBRUARY 2020
Network Engineer in General Motors, specifically in Global Telecoms Site Engineering
Responsibility include:
- Incident management related to all aspects of the EMEA corporate network, including break/fixes and proactive maintenance to resolve outages and minimize potential for future impact.
- Hardware/software life-cycle management, network hygiene/standardization, as well as network monitoring to proactively diagnose potential issues.
- Perform proactive network maintenance, such as code upgrades, hardware refreshes, config updates, peering/transit turnups, and clean-up/decoms.
- Actively looking for ways to automate networking and other tasks through code.
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### Tutor & Lab Demonstrator | Faculty of Electronic & Computer Engineering, DCU
SEPTEMBER 2018 – MAY 2019
Key responsibilities include assessing undergraduate engineering students learning needs and areas of weakness during tutorial and laboratory sessions. This role also includes correcting undergraduate continuous assessment – which include both lab reports and assignments – on behalf on each module coordinator. This role provides me with experience in an environment which is directly in line with the career I wish to pursue.

### Research & Development Mechatronic Student Engineer | Renishaw Ltd, Dublin
APRIL 2017 – SEPTEMBER 2017
Worked as part of a team of engineers on various projects throughout my six month placement. These projects included:
- Design and implementation of monitoring network into production lines throughout a factory for fault detection, isolation and recovery.
- Design of PLC program for an automated assembly system using Crouzet millennium 3 PLC software
- Design and build of a fixture used for detection of fault parts in production using Omron fibre optic sensors.

Demonstrated the ability to work in a team environment while displaying strong individual ability. This role enhanced my ability to work under pressure and to strict deadlines

### Barista | Pret A Manger, Chicago, IL.
MAY 2018– SEPTMEBER 2018
Responsible for the managing of the shop throughout the day which typically involved operating the cash register, controlling stock, cleaning & ensuring the store ran smoothly. This role allowed me to gain customer service and communication skills, while also improving my ability to work under pressure during peak hours in the shop.

## ⋯ INTERESTS, ACHIEVEMENTS & AWARDS

Academic:

- DCU/Intel Academic Postgraduate Scholarship Recipient 2018/19
- Achieved H2.1 in M.Eng Electronic & Computer Engineering, DCU.
- Achieved H2.1 in B.Eng Mechatronic Engineering, DCU.
- Achieved 490 points in Leaving Certificate.

Sporting:

- DCU Sport Scholarship Recipient 2015
- All Ireland Inter-County U-21 Hurling Medal
- Former Senior Inter-County Hurler
- DCU Fitzgibbon Cup Hurling (2015-18)

Other:

- Full Driving Licence