

# Maksymilian Drzezdzon

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## Education

**Bachelor of Science in Software and Network Engineering**  
Technological University Dublin - City campus (2:1)

**08/2015 - 10/2019**

## Skills/Glossary

**Programming:** Java, Python, Swift, C#, C/++, Kotlin, JavaScript, TypeScript, PHP

**DB Technologies:** Hibernate, JDBC, MongoDB, PostgreSQL, SQLAlchemy, Node

**Other Technologies** Gradle/Maven/Cocoapod, Git, Junit4, Tomcat, Json, XML, Flask, Android, TensorFlow

## Experience

### Network Engineering Intern

**Virgin Media**

**06/2017 - 12/2017**

- Collaborate to overhaul software used to generate config settings for switches and troubleshooting circuit paths
- Authorized with access to the network spanning over of the country, study documentation
- Deciphered varying schematics/documents to review and fix circuit paths in company software
- Communicate issues to senior engineers if any action was required such as replace equipment on the field

## Projects

### Online Book Retailer (Java, Spring, Angular, Swing, HTML5, CSS3, Bootstrap4, Ribbon, PostgreSQL, MVC)

- Developed a Rest Spring boot backend with 4 microservices on Digital Ocean, tested with Postman
- Designed a simple and clean angular front-end to present data, integrated external API for dummy data
- Revamped as Desktop self-check-out alternative following UI/UX best practices, after mediating and negotiating with professor and 2 other students to facilitate moving forward with project mix up
- Volunteered to work alone on project due to ~20 students dropping out leaving uneven groups

### Server Log/Data Analysis Tool (Python, Pandas, PyQt5, Apache HTTP Server, python IPWHOIS)

- Learned Python, Pandas and PyQt5 to prototype a desktop application to parse apache logs
- Utilized Python data structures and a to extract relevant information from a sample of 2000 connections
- Drafted a report to present insights from data, such as ~50% traffic coming from Chinese offices
- Achieved by calculating connections per second from a set of Ip isolated using D&C methodology
- Presented visualization to mediate information to Cyber-sec professor from lab honey-pot logs

### IOS Development (Swift, SwiftUI, APIs, Json, MVC, Observer, Firebase, Python, Pod)

- Integrated weather forecast API to create an app with adaptive UI vectors as background images
- Tailored 3 apps with SwiftUI such as HackerNews, To-Do and others with over 200 commits on GitHub
- Implemented 2 Design Patterns such as MVC, Observer and currently learning MVVM among others
- Trained, converted and used pretrained AI models in combination with a camera for image recognition
- Composed a camera dictionary app for my grandparents, currently its sufficient to help with shopping

### Arduino Bluetooth Car Bot (ASM, C++, Java)

- Delivered a project with a tight work schedule (3 weeks) due to 8-week snow storm delaying parts
- Persuaded professor to go through with project and guided team members with resources to learn
- Co-ordinated a project from beginning to end, spearheaded project to completion after 3 members left
- Collaborated with professor to debug code which lead to finding the cause which was broken hardware
- Demonstrated knowledge of Bluetooth (BLE), Android, Debugging, embedded system programming