

# Maksymilian Drzezdzon

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## EDUCATION

### Bachelor of Science in Software and Network Engineering

08/2015 - 10/2019

Technological University Dublin - City campus (2:1)

## SKILLS

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

**DB Technologies:** Hibernate, JDBC, MongoDB, PostgreSQL, SQLAlchemy, Node, Realm, SQLite, Firestore

**Other Technologies:** Git, Junit4, Tomcat, Json, XML, Flask, Android, TensorFlow, Keras

## EXPERIENCE

### General Motors -- Full Stack Software Engineer

08/2019 - 11/2019

- Architected spring micro-services, registered with a eureka server, sprints spread over 2-weeks
- Initiated migration of simple corporate pages to Angular 2+ in a scrum environment with daily stand ups

### Virgin Media -- Network Engineer Intern

06/2017 - 12/2017

- Collaborated to overhaul software used to generate configurations for switches and troubleshooting circuit paths
- Authorized with access to the network spanning over of the country, updated documentation
- Communicated issues to senior engineers if any action was required such as replacement of equipment

## PERSONAL AND UNIVERSITY 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

### 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, SwiftyJson, Alamofire Firebase, Python, Cocoapod, Core data)

- 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 300 commits on GitHub
- Implemented 2 design patterns such as MVC, Observer and currently learning MVVM among others
- Trained several models, converted and used 3 pretrained AI models for image recognition app
- Composed a camera dictionary app for my grandparents, currently it's sufficient to help with shopping

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

- Delivered a project on a tight work schedule (3 weeks) due to 8-week snow storm delaying parts
- Persuaded professor to start on the 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
- Demonstrated knowledge of Bluetooth (BLE), Android, Debugging, embedded system programming

### Lectured Python in Ardgillan-CC Secondary School (Python, PyGame, Spyder)

- Arranged a weekly lesson in preparation for 3-month coding cert while studying fulltime
- Collaborated with colleague and guided 30 students for 7 months, teaching basic concepts with PyGame