

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

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

Other Technologies Angular, Gradle/Maven/Cocoapod, Git, Junit4, Tomcat, Android Jetpack, Json, XML, Rest

Experience

Network Engineering Intern

Virgin Media

06/2017 - 12/2017

- Refurbish software used to generate config settings for switches and troubleshooting circuit paths
- Authorized with access to the network spanning over 50% of the country, study documentation
- Decipher varying schematics/documents to review and fix circuit paths in company software
- Communicate issues to senior engineers if action is required to be taken, replace equipment on the field etc

Projects

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

- Developed a Rest Spring boot backend, tested with Postman, Dockerized Spring microservices
- Designed a simple and clean angular front-end to present data, integrated external API for dummy data
- Revamped as Desktop Java/Swing self-check-out alternative, following UI/UX best practices

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

- Learned Python, Pandas and PyQt5 to prototype a desktop application to parse apache logs
- Prepared visualization to allow Cyber-sec professor analyze server logs from lab honey-pot website

Android Development (Retrofit2, Gson, ButterKnife, Firebase, Kotlin, Java, MVC, Adapter Pattern)

- Created a single view speed calculator tapping into hardware sensors, external library for graphing
- Built a World News app with swipe function for reading articles, layout rendered with Picasso
- Architected a fully functional multiview Kotlin messenger app on a Firebase backend

IOS Development (Swift, SwiftUI, APIs, Json, MVC, Observer)

- Integrated weather forecast API to create an app with adaptive UI vectors as background images
- Continuously building apps on both IOS/Android, researching for best practices and layout design
- Tailored simple apps with SwiftUI such as HackerNews clone, ToDo and others on my GitHub
- Implemented 2 Design Patterns such as MVC, Observer and currently learning MVVM

Flask Web Notebook (Flask, HTML5, Bootstrap4, CSS3)

- Researched Django/Flask, Imitated Facebook like features, Dockerized and hosted on Raspberry Pi
- Composed a front-end with Bootstrap4, custom error pages, account recovery, Flask layout functions

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

- Complied with a tight work schedule (3 weeks) due to 8-week snow storm delaying parts
- Debug, test code and hardware using smaller code samples and diagnose root cause
- Employed knowledge of Bluetooth (BLE), Android, Debugging code, embedded system programming