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/Glossary

Programming: Java, Python, Swift, C#, C/++, Kotlin, JavaScript, TypeScript
DB Technologies: Hibernate, JDBC, MongoDB, PostgreSQL, SQLAlchemy, Node
Other Technologies 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 any action was required, 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
- Application features purchases and returns, booking, browsing stock, all enveloped by a clear UI

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
- Extracts/Analyses IP addresses by class and occurrences, lookup IP via IPWHOIS and create report
- 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