



Calum Iain Munro BSc

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EDUCATION

Bachelor's Degree in Computer Science, Hogeschool Arnhem Nijmegen, The Netherlands

- Software Development Sep 2014 – Jul 2018
 - Classes I most enjoyed were: Software Architecture, System Analysis and Quality, Databases and Distributed Enterprise Applications. Algorithms and paradigms included in the software architecture lessons were of great interest. I did my minor in Mobile App development, CS 193P, which includes course material from Stanford. Graduated with a GPA of 3.5.

College Degree in Media Technology, Grafisch Lyceum Utrecht, The Netherlands

- Design, software development and user experience. Sep 2010 – Jul 2014

WORK EXPERIENCE

Apple Inc, Paris, France

- Natural Language Processing Engineer Oct 2018 – Present
 - International engineering of Siri, specially for the Dutch language.
 - Speech recognition to natural language processing, machine learning, big data consumption.
 - Java/C/C++, shell scripting, machine learning algorithms, metric-driven analysis, speech synthesis.

HeadFWD, Amsterdam, The Netherlands

- Senior Software Engineering Consultant Jan 2018 – Oct 2018
 - Participated in several Hackathons for companies like T-Mobile creating bleeding edge apps.
 - Developed a Smart contract, Blockchain powered Ethereum DApp for my bachelor's thesis. Commissioned by Allianz, automating co-insurance claims in a decentralized way.
 - Deployed several key projects which were developed during the Hackathons using Kubernetes, Docker and the Google Cloudplatform.

- Lead Mobile Engineer at **UL Transaction Security**, Leiden, The Netherlands Apr 2018 – Oct 2018
 - Developed ISO-compliant (18013-5) drivers licence (MDL) example native mobile app for Android (Java, Kotlin) & iOS (Swift).
 - Developed and open-sourced a C++ shared library to read & write TLV/ASN structures used by both iOS and Android.
 - As lead engineer I'm designing and developing modular software that can be re-used for similar use-cases and I set an example of how the ISO 18013-5 standard should be implemented.

- Software Engineer at **VodafoneZiggo**, Utrecht, The Netherlands Jan 2018 – Apr 2018
 - Developed fully tested middleware and Java servlets.
 - Organizing quality control and knowledge sharing between different scrum teams.
 - Automation of development line, writing unit tests and visual regressions test.
 - Simplified dynamic web components using techniques such as VueJS and Webpack.
 - Enterprise Java using Adobe AEM developing the entertainment platform for VodafoneZiggo.

PocketMedia, Amsterdam, The Netherlands

- Lead Software Engineer Jan 2017 – Oct 2017
 - Pocket Media retained my (part-time) services after I completed my internship. I create low-maintenance, highly-tested software. I participate in making architectural decisions. I introduced containerized GoLang micro services with the usage of Kubernetes and AWS, reducing development and hosting costs by 75%. The new services have seen more than double the performance while staying compatible with the legacy systems.
- iOS/Android Developer, internship Sep 2016 – Jan 2017
 - I rewrote most of the code-base of both the native Swift and Java SDK modules used to monetize third party mobile applications. I introduced automated testing and refactored the code to make it stable and production-ready. Working together with an experienced team, we applied good engineering practices in an agile scrum environment.

iMunro, Nijmegen, The Netherlands

- Freelancer Jan 2016 – Dec 2018
 - Using the skills and experiences I gained over the years, I started my own company. Writing software and giving advice: I've collaborated with numerous established and start-up companies on Dutch and international projects.

WiWi Websolutions, Nijmegen, The Netherlands

- Web Developer Internship Sep 2013 – Jul 2014
 - My first exposure to building large ecommerce web applications using the LAMP (Linux, Apache, MySQL, PHP) stack. I improved their workflow by introducing a continuous integration system and a version control system (GIT).

SKILLS

Natural Language Processing, Machine Learning, Big data analysis, GoLang, Java, Swift, iOS/Android, C/C++, JS/Angular/React, NodeJS, C#, Python, MySQL, MongoDB, AWS, GCP cloud, DevOps.

LANGUAGES

English (Native), Dutch (Native), German (Elementary).

[Resume compiled on 2019-10-29]