Jonas SCHMID

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Current goal

My main interest is **Mobile development**. I currently work with **iOS** and **Android**, preferably using native code. I always try to find the **best tool for the job**, but I also like to tinker with **cutting-edge technologies**.

Professional experience

Liip   2016 – current

Shipping Android and iOS mobile apps in collaboration with designers, mobile and backend engineers using the Scrum methodology. Leading projects on the mobile technical side. Using Swift/Kotlin and techniques such as MVVM, Coordinators, Dependency Injection, Rx, Coroutines.

Urban Connect: building the Android version of a bike-sharing app. Using Bluetooth LE, the user is able to unlock the bike lock without interacting with their phone. Interacting with the lock with a broken SDK and Android fragmentation was a real challenge.

Houston Falkon: communication app for public transportation. App mounted in the bus dashboard. Drivers are able to contact the central or other drivers. Using Twilio for VOIP calls and a Bluetooth-connected headset.

Various selected projects: Zoo Zürich: navigating the Zoo, 20'000 users. Ticketcorner Ski: buying ski resort tickets, 15'000 users. Together: quiz app about Switzerland, 30'000 users.

QA evangelism: helping teammates integrating good quality practices into our projects. Putting a CI/CD system in place using Gitlab CI, Fastlane. Improving overall code quality with modern architecture patterns and a common architecture between projects. Enforcing code reviews and testing.

Utribo   2013 – 2016

Building an iOS app in Swift using the MVVM paradigm and ReactiveCocoa. Database synchronization with Couchbase Lite. Live chat with XMPP. Tests using Quick and Nimble. Automation and Continuous Integration with CircleCI, Fastlane and Carthage. Supervision and code review of a coworker.

Previous project: building an iOS app by myself from the ground up using CoreData (MagicalRecord, FMDB), AFNetworking, Mantle, Masonry, PromiseKit, OCMock, CocoaPods and the Salesforce REST API.

Elca Informatique   2012 – 2013

Android application paired with a bluetooth barcode scanner, PoS terminal, live synchronization, used by hundreds of workers. Improved the C# backend and website.

Side projects: Security audit of an Android banking application. Two-factor authentication application (Elcard). iOS proof-of-concept application for a European administration.

Freelancer   **2007 – 2012**

Epsitec   Various projects using C#, SOAP, WCF, PHP Paypal integration, ExtJS
Yverdon-les-Bains Website using PHP 5, MySQL, jQuery, AJAX, Google Maps, template system, localization
Android Platform   Paid and free Android applications distributed on the Google Play Store

Logitech, CA, USA   **2011 – 2012**

Master thesis: Media player application for Google TV controlling the entire entertainment system. Data is gathered from the application usage and handled in order to earn knowledge about the HDMI-CEC technology.

Thomson Research Center, NJ, USA   **2008**

Bachelor thesis: connected social media center using web technologies.

Education

Swiss Federal Institute of Technology, Lausanne (EPFL)   **2009 – 2012**

Master of Science in Computer Science, "Ingénieur informaticien diplômé EPFL".
Master thesis grade: 6 / 6

University of Applied Sciences of Western Switzerland (HEIG-VD)   **2005 – 2009**

Software Engineering Diploma, "*Ingénieur HES en Informatique – Orientation Logiciel*".
Bachelor thesis grade: 5.5 / 6

Publications

Man in the (Android) Mobile – MISC Magazine   **2014**

Presentation of how to misuse of the Android public API in order to deceive the user (installation of unwanted app, click-jacking, etc.) without requiring any special exploit. Written in collaboration with two Elca colleagues.

Recent talks

Kotlin for Swift developers   **2019**

Swift and Kotlin have a lot of concepts in common but they also have a few notable differences. Knowing both languages can help you write better code and share ideas between developers of "the other platform". http://liip.to/ab19

Meet Kotlin – or why I will never go back to Java   **2018**

At Liip, we use Kotlin exclusively for new Android developments. In this talk I explain why and show how it helped us get more productive. http://liip.to/kotlintalk

Introduction to Rx   **2018**

Introduction of Rx and its paradigms to the mobile development team at Liip.

Languages

French	Mother tongue
English	Fluent reading, writing and speaking. C1 level certification
German	School level

Interests

Communities: github.com/jschmid - stackoverflow.com/users/183665

Attending to meetups from Mobile Romandie Beer and Webmardi.

Sport: practice of badminton, squash, motorbike and snowboard on a regular basis.

Member of students associations: helping new students, organizing events, EPFL (2011), HEIG-VD (2008).