Riadh Karchoud

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Summary

Software Engineer with a PHD in computer science, passionate about new technologies and innovative projects. Specialised in Mobile development, distributed computing and Blockchain technologies.

Experience

Lead Android Developer
SEPHORA

Jan 2022 - Present (1 year 10 months)

This mission is carried out within Sephora's Android team. The work is done in agility (SCRUM) with two teams of developers (android and iOS), apprentices, product owners and scrum master. The work consists of:

- Maintain Sephora's Android applications on the Europe and Middle East stores.
- Deploy new features.
- Bug fixing.
- Launch of new builds for new countries (Turkey).

Technical Stack

Kotlin, Android, Jave, React Native, Android Studio, Graddle, Google APIs, Git, BitBucket, Espresso, Mockito, UI-Automator, Batch, Drupal, AppsFlyer, Dokka, Rest API, Koin, Firebase, Jetpack Compose, RxKotlin/Java, Coroutines, Clean architecture, MVVM, Dependency Injection, Retrofit, Okhttp.

Android Engineer
IN Groupe

Oct 2019 - Dec 2021 (2 years 3 months)

This mission is carried out within the Innovation Business Unit (BUINNOV). The work is done in agility (SCRUM) with a team of developers (system, back and front, UX/UI designer, data analyst, dev iOS, PO), apprentices, product owner and scrum master. The work is confidential and is subject to patents. The business field is that of biometric identity, authentication systems, physical identity documents, travel experience etc. I mainly worked on the following projects: OneId and INWallet.

• Designing innovative solutions has problems around the theme of travel.
• Manage the brainstorming and ideation sessions around the technique and the profession.
• Supervising the work of developers by doing code reviews, validating merge requests and performing functional tests.
• Carrying out the techno watch and motivating the team to improve their skills.
• Writing patents and CIR sheets for POCs.
• Organizing demonstrations at the end of sprints and take stock of the work in order to improve the team's performance.

Technical Stack

Kotlin, Android, iOS, Flutter, React Native, Android Studio, Graddle, Google APIs, Git, Gitlab, Espresso, Mockito, UI-Automator, Bluetooth Low Energy (BLE), Wifi-Aware, Confulence, Dokka, Rest API, MLKit, Biométrie, Facial Recognition, OCR Tesseract, Firebase, NFC, Blockchain.

Full Stack Developer
BNP Paribas Real Estate
Jan 2019 - Sep 2019 (9 months)
Within the Transaction department of BNP Real Estate, the mission is carried out with a team composed of three developers, a project manager, a tester, integrator, system admin and MOA. The project, on which this mission is focused, is called Praxis. It is a project that aims to adapt, migrate and internationalize a real estate offer management application called eSelect. This application allows users (real estate and commercial agents) to manage, search, display, categorize and send real estate offers for sale or rental of land, buildings, offices etc. The work consisted of the following:
• Migration of eSelect from Angular 5 to Angular 7.
• Implementation of an internationalization mechanism (i18n) in order to reach the global market.
• Transformation of the back layer (hibernate/ EJB model) to adapt to new international needs.
• Redesign of the database (Postgres) to meet new internationalization needs and new features added.
• Modification of the architecture and Webservices to make a direct link with the enterprise ESB.
• Creation of an accompanying application to the website using React Native. This application is hybrid and includes the integration of Webviews.
• Work in TDD to ensure robustness and testability of the code.
• Ensure the continuous integration of the project with GitLab and Jenkins.

Technical Stack
Webview, Angular, PostgreSql, Hibernate, JSF, Geoserver, Eclipse, VS Code, DBeaver, Postman, Chromium, Java, TypeScript, JS, HTML, CSS, XHTML, SQL, Graddle, Maven, Jenkins, Jira, Json, JUnit, Log4J, Git, MVC, EJB, Apache, Ionic.

Mobile Developer
VINCI Energies
Jan 2018 - Feb 2019 (1 year 2 months)
The mission is to create (from scratch) a city parking application (CityZen). This application is a component of a larger solution dedicated to city services. CityZen mainly helps users find the nearest parking, book it and pay for it by the minute. It notifies users of the parking status in real time and informs them of fines, tickets and any other service related to parking. It also makes it possible to manipulate retractable terminals, find and pay for electric charging stations and alert users of any important information about their journey (works, pollution alert, free parking nearby, etc.). Finally, it offers the possibility of interacting with a chatbot that answers all questions relating to its services.

Principal Research Engineer
Laboratoire Informatique de l'Université de Pau et des Pays de l'Adour (LIUPPA)
Oct 2014 - Dec 2017 (3 years 3 months)
Manage my research project in order to propose and develop technical (prototype and results) and scientific (formalization and validation) solutions to the problems encountered in my thesis ("Long Life Application dedicated to smart-*") while respecting the ethics, methodology and innovative spirit of research.

The proposed solution is a mobile, distributed, context-sensitive application dedicated to the connected world of users. This application exploits the power of the IoT to enrich the dynamism (mobility, sensitivity-context) of the user experience by offering the right features at the right time.

Engineer Intern

Laboratoire Informatique de l'Université de Pau et des Pays de l'Adour (LIUPPA)

Mar 2014 - Aug 2014 (6 months)

Manage an engineering end-of-studies project (PFE), which presents technical and scientific issues, working in parallel with the two laboratories involved in the project. Develop a graphical editor (web) as well as a code generator (integrated as Eclipse plugin) to allow the modeling/generation/execution of Android applications, distributed, and based on software components.

Freelance

AlphaZone

Aug 2013 - Nov 2013 (4 months)

Development of 4 applications under android (Alpha Gun, Alpha Gun Pro, Alpha Clock, Alpha Clock Pro) that are published on Google Play Store.

Engineer Intern

Optimum

Jun 2013 - Aug 2013 (3 months)

Development of a smart alarm on Android.

Internship Trainee

MEGASOFT ERP

Jul 2012 - Aug 2012 (2 months)

Development of an Android application that allows advertising for the products and services of the company Megasoft.

Education

University of Pau and Adour Countries

PhD, Computer Science

2014 - 2017

Design and develop a distributed and context-sensitive mobile application dedicated to the user for use cases in a smart and connected domain (IoT).

INSAT - Institut National des Sciences Appliquées et de Technologie

Engineer's degree, Software Engineering

2009 - 2014

Said bou baker

Bachelor's degree, Computer Science

2005 - 2009

Licenses & Certifications

Cambridge Advanced English - Cambridge University Press & Assessment English

Skills

Android Development • iOS development • Applications mobiles • Design Patterns • Gestion de projet • Java • Kotlin • HTML • c ++ • MySQL