



Resume

Personal data

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Education

09/1999 – 06/2008	Marie-Curie Gymnasium , Düsseldorf (A levels / Abitur)
08/2008 – 02/2011	Albrecht-Dürer-Schule , Düsseldorf (Dual apprenticeship Mediadesign – Technical College)
04/2012 – 03/2015	University of Applied Sciences (HTW) Berlin – Studies of applied computer science (area of concentration: mobile applications)

Work experience

03/2021 – 12/2021 **D4L data4life gGmbH – Freelance iOS developer**

The Data4Life app helps users manage their health, gain new knowledge, and contribute to research.

The biggest challenge in this project was to change the app's UI from UIKit to SwiftUI during ongoing development and change the overall architecture from VIPER to Composable Architecture. This was achieved by modularizing the app into over 50 Swift packages and then gradually transforming them.

In addition to the architecture and development part, the job involved coaching the staff in Composable Architecture and SwiftUI by means of pair programming and in-depth sessions.

Features

Keep track of symptoms, participate in studies, store medical documents digitally, knowledge base

Technologies used

UIKit, SwiftUI, VIPER, Composable Architecture, Unit tests, Fastlane, SnapKit, Swift Package Manager, Sentry

02/2021 – 12/2021 **Sparkasse S-Markt & Mehrwert GmbH – Freelance iOS developer**

After having worked on the project already in 2019/2020, I re-joined the app team of Sparkasse's agency S-Markt & Mehrwert GmbH to support them on one of their projects, a white label customer loyalty app they're offering to their partners, one of which is Hamburger Sparkasse's app HaspaJoker.

This time the job mainly involved consulting, coaching, and weekly code reviews.

11/2019 – 02/2021 **Splay, Inc. – Freelance iOS developer**

The app enables selected users to upload single or multiple photos combined with text to a public feed, which automatically deletes the content after two days. In addition, the app allows one user to stream live videos simultaneously, which then appear in the feed. Viewers of the stream can send emoji reactions which then move across the screen for all participants to see. Besides photos, selected users can also post products for sale in the feed which are paid for via Apple Pay and can even be purchased by unregistered users.

A special feature of the app is that all actions are visible to other users in real-time. For example, if a user writes a text, other users can watch the author writing it even before it is published.

Features

Live video streaming, Live updates through WebSocket, Sign in with Apple, (Multiple) Image posting, Text posting, Photo cropping, Commenting, Mentioning users in comments

Technologies used

UIKit, WebSocket, WebRTC, Mediasoup, RxSwift, Fastlane, SnapKit, Push Notifications, Apple Pay, Stripe, MVVM, Unit tests

08/2020 – 10/2020 12grapes GmbH – Freelance iOS developer

12grapes GmbH is the company behind the app Bunch, an AI coach that makes it easy to learn and grow your leadership skills with bite-sized daily tips.

I joined Bunch in August 2020 to help develop new features and reduce the technical depth to make the app more performant, maintainable, and testable at the same time. To achieve this, I've built a backend with a REST API and outsourced some of the app's business logic. Furthermore, I introduced Functional Reactive Programming in an MVVM setup.

Features

Multi-step onboarding, Search, Explore Content, Gamification, User profiles, Read or listen to tips, Social sharing, Calendar integration

Technologies used

SwiftUI, Combine, MVVM, In-App Purchase Subscriptions, Fastlane, Travis CI, Unit tests, Firebase Firestore, Firebase Cloud Functions, Firebase Authentication, Firebase Cloud Storage, Google App Engine

06/2020 – 08/2020 sonamedic GmbH – Freelance iOS developer

Technologies used

SwiftUI, Combine, AVFoundation, Swift ComposableArchitecture, In-App Purchase Subscriptions, Fastlane, Firebase, Unit tests

12/2019 – 05/2020 Sparkasse S-Markt & Mehrwert GmbH – Freelance iOS developer

In December 2019 I joined the app team of Sparkasse's agency S-Markt & Mehrwert GmbH to support them on one of their projects, a white label customer loyalty app they're offering to their partners, one of which is Hamburger Sparkasse's app HaspaJoker.

Through the app, customers get special offers and discounts from local partners, can book travel/concert tickets and benefit from a variety of other perks and services. The agile scrum team consisted of 5 iOS, 4 Android as well as 4 backend developers

and was working predominantly remotely. Some of the work I did included refactoring and consolidating the codebase to be testable, introducing Screenshot tests, automating tasks, and implementing new features.

Technologies used

RxSwift, Fastlane, Alamofire, SwiftLint, SnapKit, MVVM, AppCenter, SwiftGen, Coordinator, Snapshot tests, Unit tests

07/2019 – 11/2019 Spielworks GmbH – Freelance iOS Swift developer

Spielworks hired me to kick-start their product "Wombat" for iOS. For this greenfield project, I did both the architecture and the implementation of the beta version and later hired another developer who eventually took the project over.

The app is the first EOS wallet built for everyday use and simplifies the creation of EOS accounts through a three-step onboarding process. It automatically encrypts and stores the private key in the cloud and makes sending/receiving EOS tokens a breeze. One of the core features of the app is the DAPP Browser that acts as a proxy between DAPP and the EOS account and provides a streamlined user-interface to sign transactions.

Features

Login, EOS account creation, Send/Receive EOS tokens, sign transactions, SDK for third-party apps, Manage EOS keys, Unlock private key, Prime subscription, EOS resources overview

Technologies used

In-App-Purchases, EOS Blockchain, AES Cryptography, Sign in with Apple, Facebook, Twitter and Email, Firebase, Crashlytics, RxSwift, MVVM, Google Drive, Dropbox, Unit tests

01/2019 – 06/2019 Fitness First Germany GmbH (*via anywhereinside UG*) – Freelance app and backend developer

Together with another developer I've built the fitness video portal "My Fitness Video" for Fitness First. The project was set up with high scalability and security in mind and was built entirely with various components of Amazon Web Services (AWS). It consists of three main parts. Firstly the backend, where one of the bigger challenges was, to implement the whole payment and subscription process. Secondly the web app, a server-side rendered vue.js single page application, and thirdly the content and customer management system for administrators.

Features

Heavily mobile-optimized web app, user login, user registration with multi-step onboarding flow, reset & change password, change email, video streaming, payment integration (Wirecard bank),

subscription management, voucher codes, video recommendation based on user's behavior, training programs, campaigns, analytics, cms for static pages

Technologies used

Web app: Nuxt.js, Bootstrap, Node.js, GraphQL, Webpack, Serverless, AWS Lambda, AWS Cognito, AWS S3, AWS CloudFront, AWS Cloudformation

Web app (admin cms): Vue.js, Bootstrap, GraphQL, AWS S3, AWS Cloudformation, AWS CloudFront, AWS Cognito, Webpack

Backend: Node.js, AWS Lambda, GraphQL API, AWS Cognito, AWS AppSync, AWS Kinesis, AWS RDS, AWS SES

01/2018 – 01/2019 **Vantik GmbH** – Head of frontend development (vue.js / iOS Swift)

After having helped out Vantik as a freelancer end of 2017, I joined full-time in 2018 to build up the entire frontend stack and team. Vantik is an investment-based retirement savings product (private pension). Since Vantik is a banking product, highest priority in all layers of the stack was security and compliance with the German federal financial supervisory authority (BaFin).

Stack

1. Customer web app

BaFin compliant multi-step user registration, deposit & withdraw money, payment history, multi-factor authentication, change linked bank account, tax exemption settings, account settings, account balance, customer login, reset & change password

2. Admin web app

User management, payment management, voucher codes

3. Visitor website

Static website generator fed by a headless CMS (Prismic) and hosted on AWS S3

4. App (iOS)

Customer login, account balance, deposit & withdraw, account settings

Technologies used

Customer web app: Vue.js, Bootstrap, Node.js, Webpack, AWS Cognito, AWS Cloudformation, AWS S3, AWS Lambda

Admin web app: Vue.js, Bootstrap, AWS S3, AWS Cloudformation, AWS CloudFront, AWS Cognito, Webpack

Visitor website: Node.js, Express.js, Prismic.io (Headless CMS), Pug

App (iOS): Swift, UIKit, Alamofire, RxSwift, MVVM, Reactive programming

05/2017 – 01/2018 **Boston Consulting Group** (*via functional aesthetics GmbH*) – Freelance iOS Swift developer

Together with a team of developers put together by functional aesthetics, I was working on the iOS swift app (universal - iPhone & iPad) for Boston Consulting Group's client smile.direct, a Swiss insurance company. The app was designed to help families planning their everyday life. The main part of the app is an elaborate calendar, heavily optimized for easy user experience on both the iPad and iPhone. Furthermore, family members have profiles and can easily communicate through private messages.

Features *(excerpt)*

Calendar component, create & edit events, comment, animated onboarding, create & edit task lists, import calendars, sharing, push notifications, user registration & login, reset & change password, family setup, private messages, change app theme

Technologies used

Swift, UIKit, Fastlane, RxSwift, MVVM, Reactive programming, Alamofire, AlamofireImage, SnapKit, SwiftLint, Firebase, BuddyBuild, Core Text, Core Telephony, Quartz Core, AVFoundation, Core Media, Core Video

12/2015 – 05/2017 Wine in Black GmbH – iOS Swift developer

Together with another app developer I've built the native iOS swift (universal - iPhone & iPad) app for Wine in Black, a wine e-commerce company. Due to the fact that Wine in Black is a curated shop with a limited, constantly changing assortment, the app stores all active products on the device and syncs with the server on startup so that all interactions with products such as browse, search or filter are instant and do not require a network connection.

Besides working on the iOS app, another part of the job was building a new REST API. This was necessary because the existing shop system was being replaced during the project.

Features

Push notifications, campaigns, product detail page, cart, checkout, order history, profile, filters & search, custom transitions, store country switching, user registration & login

Technologies used

App: Swift, UIKit, iAd, Core Image, Fabric, Fastlane, OneSignal, Crashlytics, Analytics

Backend: PHP, Spryker Commerce OS, MySQL, Integration tests

01/2015 – 12/2015 universeiscool UG – iOS Swift developer

For universeiscool, I built the social image sharing app FOYER. It enables the user to combine text and photos into a story and a layout algorithm takes care that stories look unique and good on any device. An integrated image editor provides an easy way to

get the most out of the pictures and social features such as share, like and comment make sure that stories get the attention they deserve. The social feed channelizes the stories created or shared by followed users and the discover section in the app exposes stories of users from outside the user's network.

Features

Login, registration, animated onboarding flow, story page, story editor, image editor and picker, social feed, like, share, comment story, discover section (stories & users), profile, push notifications, web app for cross-platform use

Technologies used

App: Swift & Objective-C, UIKit, Core Image, Core Graphics, Core Animation, Alamofire, MVC, Unit tests

Web: Angular.js, Image proxy

Backend: Node.js, REST, Koa.js, AWS S3, AWS Lambda, AWS Simple Notification Service, AWS Simple Email Service, Neo4j Graph Database, Integration tests

05/2014 – 09/2014 Deutschlandradio – iOS Objective-C developer

During studies, I was working on the media library app for Deutschlandradio Wissen.

Features

Login, registration, category overview, article detail page, audio streaming, starring favorite articles, push notifications

Technologies used

Objective-C, UIKit, MVC, Core Animation, Core Image, AVFoundation, AFNetworking

02/2011 – 04/2012 sipgate GmbH – UX/UI designer

08/2008 – 02/2011 sipgate GmbH – Dual apprenticeship (media design)