

Kilian Koeltzsch

SOFTWARE ENGINEER · STUDENT

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Education

University of Applied Sciences Dresden

ELECTRICAL ENGINEERING AND INFORMATION TECHNOLOGY, B.Sc.

- Specialized in automation engineering and technical computer science.

Dresden, Germany

Oct. 2016 - present

Dresden University of Technology

MECHANICAL ENGINEERING, B.Sc. - *unfinished*

Dresden, Germany

Oct. 2014 - Aug. 2016

Dresden University of Technology

MEDIA COMPUTER SCIENCE, B.Sc. - *unfinished*

- Was involved in projects related to web development and game design/development.

Dresden, Germany

Oct. 2012 - Aug. 2014

Skills

Programming Languages Swift, Python, Rust, Go, Node.js and others

Areas of Expertise iOS, development tooling, server-side/backend

Languages German, English

Experience

Dresden University of Technology

STUDENT ASSISTANT

- Sole maintainer for the iOS app *Campus Navigator* since 2015. A mixed Swift/Objective-C project.
- Teaching assistant for *Computer Science 2* for Mechanical Engineering students.
- Tutored first semester Computer Science students.

Dresden, Germany

2013 - present

Apodidae

PERSONAL PROJECT

- Swift CLI tool to search for available Swift packages on GitHub.
- Includes the ability to add found packages to local manifest file and resolve dependencies.

2017 - present

ParkenDD

PERSONAL PROJECT

- Implemented the iOS app and backend for ParkenDD, an app that aggregates and shows current available parking spaces in public parking lots for several European cities.

2014 - present

Universitätsklinikum Carl Gustav Carus

FREELANCER

- Updated an iOS app used to navigate the university hospital campus to the current iOS SDK.
- Consulted in what's necessary for a successful iOS app publication.

Dresden, Germany

2016

Liefermax GmbH

FREELANCER

- Collaborated to develop an iPad application to alleviate the job of a beverage deliverer
- Swift-only project that synced directly with a MSSQL database.

Dresden, Germany

2015 - 2016

Remus Datentechnik GmbH

RETAIL EMPLOYEE

- Remus Datentechnik GmbH was at the time the only Apple certified Premium Reseller in Ingolstadt.
- We dealt in all things hard- and software from Apple and other selected vendors besides offering technical support to customers.

Ingolstadt, Germany

2010 - 2012

Touchpod.de

JOURNALIST

- One of the first sites to cover the iPod touch, iPhone and iOS.
- Several thousand monthly visitors at the time.
- Wrote articles reviewing Apple hardware and several iOS apps.

2009-2010

Extracurricular Activity

iFSR - Faculty of Computer Science Student Council @ TUD

Dresden, Germany

SPOKESPERSON, ETC.

2012 - 2014

- Held differing positions including spokesperson from 2012 - 2014.
- Have been an *associated member* loosely associated with official activity since.

Presentation

Cocoaheads

Dresden, Germany

PRESENTER FOR REVERSE ENGINEERING IOS APPS

May 2017

- Spoke about reverse engineering iOS apps.
- Shown techniques included intercepting network traffic, opening the bundle, injecting code on jailbroken devices and disassembling the app binary.

Mobile Camp 2017

Dresden, Germany

PRESENTER FOR REVERSE ENGINEERING IOS APPS

Apr. 2017

- Held the same talk about reverse engineering iOS apps as listed above.

Lange Nacht der Wissenschaften

Dresden, Germany

PRESENTER *Lightning Talk* @ LNDW

Jun. 2014, Jun. 2015

- Gave a short introduction into the world of bitcoin and other cryptocurrencies.

Cocoaheads

Dresden, Germany

PRESENTER FOR SWIFT OS

Dec. 2015

- Held a talk together with Benjamin Herzog about Swift being Open Source and everything that entails.

IDWerkstatt

Dresden, Germany

PRESENTER

Dec. 2012, Mar. 2013

- Spoke about eco-friendly energy consumption and stopping unnecessary economic growth.
- The IDWerkstatt was a round of *lightning talks* held in the offices of and organized by the Pirate Party Dresden.