

# 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, open data, 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

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### 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

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### Cocoaheads

Dresden, Germany

REVERSE ENGINEERING IOS APPS

May 2017

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

### Mobile Camp 2017

Dresden, Germany

REVERSE ENGINEERING IOS APPS

Apr. 2017

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

### Lange Nacht der Wissenschaften

Dresden, Germany

BITCOIN *Lightning Talk*

Jun. 2014, Jun. 2015

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

### Cocoaheads

Dresden, Germany

SWIFT OPEN SOURCE

Dec. 2015

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

### IDWerkstatt

Dresden, Germany

ÖKOBONUS & WARUM WACHSTUM NICHT DAS MAß ALLER DINGE IST

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.

## Other

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### WWDC 2016

San Francisco, USA

WWDC '16 SCHOLARSHIP

Jun. 2016

- Was granted a scholarship ticket to Apple's World Wide Developer Conference 2016.
- Applied by showcasing the aforementioned ParkenDD and Campus Navigator projects.