

Carsten Knoblich

Full-stack mobile developer & architect (iOS & AWS)

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Core Skills

Technology

- AWS architecture and IT transformation; DevOps, micro services, private projects
- Mobile software development; iOS, Swift, Objective-C
- Python development; Django, Flask
- (Process-)Automation; Continuous delivery & -deployment; Fastlane, Jenkins
- Agile development; Scrum, Kanban, Lean development
- Understanding of different software life cycles

Personal Skills

- Experience to manage cross-functional teams and oversee the needs of all stakeholders in multi-disciplinary projects
- Able to go deep into technology as well as simplified according to target audience
- Team player
- Problem solving with a mix of best practice and lean software development
- Critical thinking
- Conflict resilient

Occupation

Professional

03/2020–today **Freelance**

Mobile developer (iOS), tbd

- App development to be used for a German public transport company
- Design and development of shared code libraries to be used within the iOS team
- Mobile API design & review
- **Technologies:** Swift, UIKit, CoreData

11/2019–02/2020 **Freelance**

Mobile developer (iOS), Deutsche Post IT Services GmbH, Berlin

- Design, Development & Testing of new products to access & maintain the new generation of "Packstation" pick-up locations (iPhone and iPad)
- **Technologies:** Swift, UIKit, CoreBluetooth, Python scripts, Fastlane & Xcode Bots for continuous integration

05/2019–11/2019 **Freelance**

Mobile developer (iOS), DKB Code Factory GmbH, Berlin

- Design, Development & Testing of a new banking product (iPhone and iPad)
- Defining and implementing common standards in cross-functional teams (Credit Card & Banking app)
- **Technologies:** Swift, UIKit, CoreData, Python scripts, Fastlane & Jenkins for continuous integration

10/2018–04/2019 **Freelance**

DevOps Engineer, Boehringer Ingelheim, Berlin/Ingelheim

- Deployment of infrastructure using a multi cloud environment
- Agile scripting within DevOps framework
- Run, test, adjust and create blueprints according to (inhouse) client's needs
- **Technologies:** Azure, Terraform, InSpec, Ruby, Jenkins

07/2018–10/2018 **Freelance**

Research Spike, vitaliberty GmbH, Berlin/Mannheim

- Research spikes on advanced mobile topics (iOS; Health, Siri)
- Prototype and framework development (iOS)
- **Technologies:** Swift, HealthKit, SiriKit, Fastlane for continuous integration

09/2017-07/2018 **Freelance**

Software Architect, EY (Ernst & Young GmbH), Berlin/Freiburg

- Requirements analysis & architecture for a mobile-based e-learning platform
- VR project using Unity & Gear VR (Android)
- Mobile development (iOS)
- Web/Backend development (Python/Django)
- Designing and development of AWS-based systems & prototypes
- **Technologies:** Swift, Unity 3d, Fastlane for continuous integration

01/2017-08/2017 **Permanent**

Senior Consultant, EY (Ernst & Young GmbH), Berlin/Freiburg

- Architecture requirements assessment & interface design between corporate backend(s) and SAP HANA
- Enabling teams for mobile prototype develop- & deployment
- Participation in the Enterprise Architects community
- TOGAF trained
- **Technologies:** AWS (EC2, DynamoDB, RDS, S3, Lambda, Polly, Lex, etc.), Swift, Python

09/2016-12/2016 **Freelance**

Software Developer, Berlin

- Mobile development (iOS)
- Consulting and development of AWS-based systems
- General IT consulting; requirements analysis
- **Technologies:** Swift, AWS (EC2, DynamoDB, RDS, Lambda, ApiGateway, etc.), Python

09/2015-10/2016 **Permanent**

Lead developer, Two Bulls GmbH, Berlin/Melbourne/New York

- Technical/Architectural lead for the german chapter
- Native iOS development for German and Australian customers in the fields of Education, Social Media, IoT and more.
- Candidate assessment for internal developers and an external client in New York
- Knowledge transfer and evangelism for iOS-related topics between the German and Australian offices
- **Technologies:** Swift, continuous integration & automation via Fastlane, Travis and Jenkins. Integration of cloud-based and traditional backend solutions based on Django, Parse, Firebase and AWS (EC2, DynamoDB, RDS, S3, Lambda, ApiGateway, etc.)

02/2014-08/2015 **Permanent**

Lead iOS developer, Secret Escapes GmbH, Berlin/London

- Native development of the Secret Escapes iOS app; consulting for all mobile-topics (architecture, tracking, testing, app life cycle, etc.)
- **Technologies:** UI Kit, Core Data for offline caching and app handling (e.g. bookmarking and auto-synching when back online); Objective-C & Swift
- Managing and defining automatic translation process (via Phraseapp) and creating tutorials for translators

09/2012-01/2014 **Permanent**

Mobile developer (iOS), Innogames GmbH, Hamburg

- Native development of Tribal Wars 2 iOS app (online MMO)
- **Technologies:** Cocos2D, OpenGL (shader programming), UI Kit, Core Data, web sockets, iOS payment integration into corporation structures (cross-game library), creation of Python-based asset pipeline to automatically convert assets for mobile usage
- Development of native components and views for Grepolis App and Grepolis Mobile (no longer in store)
- **Technologies:** UI Kit, Adobe AIR, Phone Gap
- Technical candidate assessments (phone and direct interviews)

11/2011-08/2012 **Permanent**

Mobile developer (iOS), DocumediaS GmbH, Hannover

- Lead mobile developer & architect
- Project manager (mobile); Requirements analysis with customers
- Mobile API design and development (Python/Django)

- Linux Server Administration for Amazon Web Services & infrastructure

05/2011–11/2011 **Freelance**

Freelance Software Developer, Hildesheim

- Mobile development (iOS)
- Backend development (Python/Django)

07/2000–06/2004 **Permanent**

Army Service, Bundeswehr, Oldenburg

- Sergeant; Paratrooper

Private Projects

03/2019–today **Exoplanet Explorer**

- Mobile app to display, search and bookmark exoplanets based on the NASA Exoplanet archive
- Design & Development of the mobile app (iOS), web site and backend
- AppStore Link
- **Technologies:** iOS, Swift, CoreData, iCloud, Amazon Web Services (EC2 etc.), Redis, Postgres, Docker, Grafana

05/2015–01/2017 **Sojourner - Social Tour Guides** – (discontinued)

- Social platform for user generated (city-)tours. Playground for advanced app features such as app Indexing, deep linking, etc., as well as other topics like ad-Frameworks, analytics and automated content generation
- **Technologies:** iOS, Swift, Amazon Web Services (Cognito, DynamoDB, IAM, etc.), iCloud

Education

University

07/2009–03/2012 **University of Hildesheim**

- **Information management and -technology**
- Unfinished Master of Science; focus on applied machine learning and artificial intelligence; grade point average 1.9 at ~50% progress

10/2004–06/2009 **University of Hildesheim**

- **Information management and -technology**
- Bachelor of Science
- Focus on applied data mining, machine learning and computer aided learning

Internships & others

06/2006–07/2011 **Student Assistant, University of Hildesheim**, Hildesheim

- Software development and research: automatic Wikipedia-article categorization, image analysis, EXIF extraction and other machine learning tasks
- **Technologies:** Java, Python/Django, PostgreSQL, misc. graph- & no-SQL databases, cluster computing
- Tutor for Java, System Administration (Unix), Computer Science and during "Summer Schools" (audience: pupils aged 10-16; topics: Robotics and Java)

11/2007–04/2008 **Internship, MAN/NEOMAN Bus GmbH**, Salzgitter

- Supporting project management "VirtBus" (online repair- and maintenance)
- User testing, bug reporting, QA
- Conceptual design of online Flash-based training and presentation platform

04/2006–08/2006 **IT Volunteer, FIFA World Cup 2006**, Hannover

- IT support in cooperation with Telekom, Avaya and others