

# Philip Karl Niedertscheider

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## Profile

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Highly skilled and passionate software developer with over 10 years of experience specializing in mobile app development, distributed back-end development, and deployment process automation. Proven track record of leading teams, founding startups, and managing related administrative responsibilities of building companies. Strongly motivated to deliver excellence, with a keen focus on clean, solution-oriented work and clear communication. Proficient at economic thinking, with a robust background in both technical and business domains. Self-taught and continuously learning, with a strong advocacy for open-source software, especially as the founder and lead maintainer of TPPDF, a Swift framework with over 700 stars on GitHub.

## Professional Experience

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### kula app GmbH

July 2022 — Present

#### Founder, Managing Director, CTO

- Led the development of a fully automated app deployment system, to combine user data, code-generation and proprietary automation technologies to manage individualized apps at scale, while reducing app deployment time from weeks to days.
- Managed all aspects of cloud infrastructure, backend software, and automation technology while overseeing strategic and economic aspects of the startup.
- Developed scalable, secure mobile apps with deep expertise in Swift, SwiftUI and UIKit.
- Strong background in mobile app security, backed by academic research and extensive hands-on experience.
- Continuously optimized cloud infrastructure to handle increasing loads using containerisation, cloud orchestration (Kubernetes, AWS) and monitoring solutions (Grafana, Prometheus), without compromising performance, availability or security, following along best practices (AWS Well-Architected Framework Review, WAFR).
- Led implementation of Continuous Integration and Continuous Delivery (CI/CD) pipelines using GitHub Actions, integrating automated testing and deployment processes.
- Applied LLMs like OpenAI's GPT API to make the app-building process accessible to non-technical users.
- Active contributor and lead maintainer of multiple open-source frameworks, including founding and leading the publicly-funded platform OnLaunch, built as a web application (Next.js) with its native clients written for Android (Kotlin), Flutter (Dart) and iOS (Swift).
- Proficient in breaking down complex problems into smaller, manageable work packages to implement a collaborative, autonomous work environment, empowering team members to achieve goals independently, iteratively and in parallel, while providing mentorship and advice.
- Experienced in managing projects within small, dynamic teams where frequent changes required a high degree of flexibility.
- Collaborated with non-technical roles such as sales, marketing, and customer support to align technical solutions with business objectives, while also developing internal tools to enhance organisational efficiency.
- Taught non-technical employees complex technical concepts and supported them in learning new technologies.

### techprimate GmbH

August 2022 — Present

#### Founder, Managing Director, CTO

- Management of cloud hosting solutions (email, websites)
- Research and development lead for applications for iOS and macOS (Swift)
- Design and implementation of back-end software (Node.js, Typescript)
- Consultant for mobile app development strategies and architectures
- Lead-maintainer of Free Open Source Software (FOSS) projects written in Swift
- Setup and maintenance of Continuous Integration/Continuous Deployment (CI/CD) processes

### WolfVision GmbH

August 2020 — September 2022

#### Senior iOS/macOS Developer

- Research and development of cross-platform applications for Apple platforms (iOS/macOS)
- Refactoring of individual iOS and macOS apps into a shared, clean-architecture using the VIPER pattern
- Setup and management of Continuous Integration/Continuous Deployment infrastructure using GitLab Runner with self-hosted infrastructure
- Planning and mentoring for software architecture design

### techprimate GmbH & Co. KG

July 2020 — August 2022

#### Founder, CTO

- Research and development lead for applications for iOS and macOS (Swift)

*This curriculum vitae is a showcase of using my PDF generator framework TPPDF.  
The full source code is available at [github.com/philprime/cv](https://github.com/philprime/cv).*

- Design and implementation of back-end software (Node.JS, Typescript)
- Consultant for mobile app development
- Lead-maintainer of Free Open Source Software (FOSS) projects written in Swift
- Setup and maintenance of Continuous Integration/Continuous Deployment (CI/CD) processes

## **fusonic GmbH**

July 2020 — August 2020

### **Software Developer Intern**

- Development of back-end applications (ASP.NET) using REST and gRPC
- Research, analysis and presentation of application performance tracking using Sentry
- Collaborating with a team of developers using agile methods (SCRUM)

## **techprimate GmbH & Co. KG**

July 2018 — August 2020

### **Founder, Managing Director, CTO**

- Technical co-founder and managing director of mobile app development agency
- Product development and project management team lead (CTO)
- Research and development lead for applications for iOS and macOS (Swift)
- Design and implementation of back-end software (Node.JS, Typescript)
- Introduction and lead of project management (SCRUM)
- Customer dialogue and contract negotiations
- Infrastructure management (Docker)
- Lead maintainer of Free Open Source Software (FOSS) projects
- Setup and maintenance of Continuous Integration/Continuous Deployment (CI/CD) processes
- Establishment and legal management of an Austrian limited liability corporation (GmbH)

## **Christian Niedertscheider Systemplan**

June 2017 — December 2022

### **System Administrator**

- System and server infrastructure management
- Planning and implementation of IT processes
- Technical administration and support

## **Austrian Red Cross**

September 2016 — July 2017

### **Paramedic (Compulsory Civilian Service)**

- Trained paramedic in accordance with the paramedic training regulations (San-AV), BGB. II Nr. 420/0203

## **Independent Software Developer**

September 2015 — July 2018

- Research and development of mobile applications for iOS (Swift) and backend applications (Node.JS)
- Migration from UIKit to CoreGraphics and CoreText for PDF document generation on iOS and macOS
- Founding and maintenance of Free Open Source Software (FOSS) as Swift Frameworks

## **Consilio Information Management GmbH**

July 2016 — August 2016

### **Junior Software Developer**

- Research and development of mobile applications for iOS (Swift)
- App release management via the Apple App Store
- Setup of shared code signing certificate management using fastlane (Ruby)

## **Consilio Information Management GmbH**

August 2015

### **Software Developer Intern**

- Research and development of mobile applications for iOS (Swift)
- App release management via the Apple App Store

## **Consilio Information Management GmbH**

July 2014

### **Software Developer Intern**

- Project setup and development of mobile applications for iOS (Objective-C, Swift)
- Design and client-side implementation of API interface
- Documentation management for app publishing process (iTunes Connect)

## **Skills**

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### **Mobile App Development**

- Swift, Objective-C (10 years)
- SwiftUI, UIKit, AppKit
- Deep understanding of operating systems iOS and macOS
- Build, deployment & release management with App Store Connect

- Building complex deployment pipelines using fastlane (Ruby)
- Publishing of Swift libraries using Swift Package Manager and Cocoapods
- Performance profiling, manual crash symbolication and analysis, binary decompilation (for security research) using Xcode Instruments
- Architectural patterns like MVVM, Redux, VIPER

### Back-end Development

- Node.JS mit Typescript (7 years)
- Nest.JS, Next.JS, React
- MongoDB, PostgreSQL (5 years)
- MongoDB Atlas App Services / Realm
- ChakraUI, TailwindCSS
- Distributed systems using Kafka, Redis (4 years)

### Cloud Operations (DevOPs)

- Implementation of scalable cloud solutions using Amazon Web Services (AWS)
- Deployment of highly-scalable infrastructure using Kubernetes & Docker containerisation
- Infrastructure-as-Code (IaC) using Pulumi
- Setup of Continuous Integration / Continuous Delivery (CI/CD) infrastructure and processes (GitHub Actions, GitLab Runner, Bitrise)
- Securing remote infrastructure using VPN technologies like Tailscale

### Open Source Project Management

- Issue Management
- Code Review
- Quality Assurance
- Release Management

### Technical Conception & Documentation

- Design of distributed systems (Publish-Subscribe, Event-Driven)
- Implementation of micro-service architectures
- Planning and maintenance of future-proof web application program interfaces (REST API)

## Academic Education

<b>TU Wien Innovation Incubation Center (i²c)</b> Startup Incubation Program	2021 — 2022
<b>Vienna University of Technology</b> Bachelor's of Science in Software & Information Engineering	2017 — 2022
<b>AFS Intercultural Program</b> High School student exchange program in the United States of America (USA)	2012 — 2013
<b>Höhere Technische Lehranstalt Bregenz</b> Matura in Mechanical Engineering for Automation Technologies	2010 — 2016

## Languages

- German (Native)
- English (Fluent)

## Other Qualifications & Achievements

- Drivers Licenses: A2 and B
- CodersRank Top 1% Worldwide (profile.codersrank.io/user/philprime, August 2024)
- CodersRank Top 1 Swift Developer Austria (profile.codersrank.io/user/philprime, August 2024)
- One of 1,000 developers invited to Apple's Worldwide Developer Conference (WWDC) 2022

## Personal Interests

- Photography
- Mountain Biking
- DIY Crafting
- Learning Japanese
- Cooking
- Motor Sports
- 3D Printing