

Andrey Gershengoren

Senior iOS Engineer — Swift · SwiftUI · Enterprise / Regulated

Contact Nibelungenplatz 8, 90461 Nuremberg, Germany

Mobile: +49 (170) 5003980

Landline: +49 (911) 32239945

Email: andrey.gershengoren@gmail.com

Profile

Senior iOS Engineer with 10+ years of experience in native iOS development using Swift, SwiftUI, and UIKit. Focus on enterprise and large-scale consumer apps — from regulated healthcare environments (electronic health record / ePA) to e-commerce, retail, and IoT / smart-home platforms.

Specialized in scalable iOS app architecture (MVVM, Clean Architecture, SOLID), technical concept design, modernization of complex codebases, and authentication and session flows. Long-standing collaboration with major companies including IBM Germany, eBay Kleinanzeigen, Siemens, and EDEKA Digital.

Additional experience with Kotlin Multiplatform (KMP) for shared business logic, CI/CD and automated release processes (Fastlane, Jenkins), REST/GraphQL backend integration, and real-time communication.

Core Competencies

- Native iOS development with Swift and SwiftUI
 - Enterprise mobile development in regulated industries (healthcare / public sector)
 - Authentication & iOS security (OIDC, JWT, FIDO, mTLS, Keychain, SSL pinning)
 - Large-scale consumer applications
 - iOS architecture & software design (MVVM, modular architectures)
 - Design systems & UI architecture
 - Test automation & quality assurance
 - CI/CD & automated release processes
 - App modernization & refactoring
-

Technical Skills

iOS & Mobile: Swift, SwiftUI, UIKit, Combine, RxSwift, Swift Concurrency (async/await), PromiseKit, Objective-C, Kotlin Multiplatform (KMP) — shared business logic (networking, data models, coroutines, serialization)

Architecture & Engineering: MVVM, Modular Architecture, Clean Architecture, SOLID Principles, Scalable Mobile Architectures, Clean Code, Design Systems, Design Tokens, Dependency Injection, App Modernization & Refactoring, Performance Optimization

Security & Authentication: OpenID Connect (OIDC), JWT, FIDO, mutual TLS (mTLS), Keychain, Certificate/SSL Pinning, Authentication & Session Flows, Device Hardening

Healthcare / Telematics (Domain): gematik specifications, Telematik Infrastructure (TI), sek-IDP, eGK/NFC, TI-Messenger, BSI, GKV

APIs & Backend: REST APIs, GraphQL, WebSockets, Backend Integration, Real-time Communication

Quality, Testing & Delivery: XCTest, XCUITest, Unit Testing, UI Testing, Snapshot Testing, BDD, Gherkin (BDD DSL), Cucumberish, Test Automation, A/B Testing, Feature Flags, Code Coverage, CI/CD Pipelines, Fastlane, Jenkins, GitLab CI/CD

Specialized: Mapbox (vector/raster tiles, custom tiling, GeoJSON, clustering), Geospatial Data Visualization, Scandit / Barcode Scanning, Self-Checkout, Realm, AVFoundation, CoreBluetooth, Media Processing Pipelines

Tools & Platforms: Xcode, Git, Jira, Confluence, Swift Package Manager (SPM), CocoaPods, AWS, Linux, Figma

Methodology & Collaboration: Agile, Scrum, Kanban

Work Experience

IBM Germany GmbH — iOS Engineer, Electronic Health Record (ePA)

10.2023 – 07.2026 · Regulated Healthcare

Development and integration of authentication components within the electronic health record (ePA) in a heavily regulated healthcare environment.

- Integration, ongoing development, and support of sectoral identity providers (sek-IDP) — feature implementation and root-cause troubleshooting
- Implementation of standards-based authentication: OpenID Connect (OIDC), JWT, FIDO, mutual TLS (mTLS)
- Implementation of security-relevant authentication and session flows in iOS
- Stabilization of complex login and reauthentication processes
- Implementation according to gematik specifications within the Telematik Infrastructure (TI)
- Integration of eGK/NFC card reading via a Kotlin Multiplatform (KMP) module
- Team contribution to the implementation of TI-Messenger
- iOS security: Keychain, certificate/SSL pinning, integration of device-hardening measures
- Asynchronous processing with Swift Concurrency (async/await), Combine, and PromiseKit
- Contribution to Kotlin Multiplatform (KMP) modules for shared business logic
- Development of modern UI components with SwiftUI in a modular, scalable structure
- Testing: snapshot tests, BDD, manual mocking (incl. KMP modules), code coverage as a quality metric, execution in CI
- 3rd-level support including direct coordination with statutory health insurers (Krankenkassen/GKV): root-cause analysis and resolution of escalated auth, session, and integration issues
- Compliance with regulatory requirements per BSI guidelines and data protection requirements in the GKV environment

Technologies: Swift, SwiftUI, Swift Concurrency (async/await), Combine, PromiseKit, KMP, MVVM, REST, OpenID Connect (OIDC), JWT, FIDO, mTLS, Keychain, Certificate/SSL Pinning, gematik, Telematik Infrastructure (TI), sek-IDP, eGK/NFC, TI-Messenger, XCTest, XCUITest, Snapshot Testing, BDD, Fastlane, Jenkins, Git, Jira, Confluence, CocoaPods, SPM

eBay Kleinanzeigen GmbH — iOS Engineer, Kleinanzeigen App

04.2022 – 08.2023 · Large-scale Consumer / E-Commerce

Ownership of the design system and UI migration as part of the rebranding of one of the largest consumer apps in the German market.

- Built a scalable design system from the ground up (UIKit and SwiftUI)
- Synchronized design tokens from Figma (colors, typography, spacing), including dark mode support
- Incremental migration and modernization of existing UI components onto the new design system
- Improved maintainability and consistency of the UI architecture across a large-scale consumer codebase
- Ensured quality through snapshot tests, A/B tests, and feature flags; executed in CI
- Close collaboration with product, design, and engineering teams (Scrum)

Technologies: Swift, SwiftUI, UIKit, MVVM, SPM, REST, Design Tokens, Figma, Dark Mode, Snapshot Testing, A/B Testing, Feature Flags, Fastlane, Jenkins, XCTest, XCUITest

LiveEO — iOS Engineer, Geospatial Data Management Platform

01.2022 – 09.2022 · Geospatial / Industrial

Concept design and development of an MVP iOS application for managing and visualizing satellite-based geospatial data for infrastructure and industrial use cases.

- Developed a mobile platform for visualizing geospatial data from satellite analytics (SwiftUI, Combine, MVVM)
- Mapbox integration: custom tiling, vector and raster tiles, layers and annotations, clustering, GeoJSON, and Mapbox Expressions
- Processing of coordinates and projections for rendering large geospatial datasets
- Offline capability with Realm: selective download of tiles and objects for field use
- Connected satellite-based data via REST APIs
- Performance optimization of rendering and data loading for large geospatial datasets
- Implemented a performant, scalable MVP architecture

Technologies: Swift, SwiftUI, Combine, MVVM, Mapbox, Vector Tiles, Raster Tiles, Custom Tiling, GeoJSON, Mapbox Expressions, Clustering, Realm, Offline Storage, REST APIs, Geospatial Data Visualization

EDEKA Digital GmbH — iOS Engineer, EDEKA App

07.2020 – 03.2022 · Retail

Redesign and migration of a high-traffic retail and customer platform to SwiftUI, followed by a focus on test automation.

- Redesign and incremental migration of the app to SwiftUI as the primary focus
- Continued development of existing architectures (MVVM)
- After a team split: focus on test automation
- Built BDD test scenarios with Cucumberish (Gherkin)
- Snapshot and unit tests as part of test automation
- Connected backend services via REST

Technologies: Swift, SwiftUI, MVVM, Test Automation, Cucumberish, Gherkin, BDD, Snapshot Testing, Unit Testing, XCTest, REST, Fastlane

Siemens AG — iOS Engineer, Junelight App

01.2020 – 06.2020 · IoT / Smart Home

Continued development of a smart-home and IoT platform.

- Developed SDK components for IoT devices
- Integrated and optimized device communication
- Contributed to scalable mobile architectures
- Continued development of existing product features

Technologies: Swift, RxSwift, AWS, Realm, MVVM

EDEKA Digital GmbH — iOS Engineer, Scan & Go (Self-Checkout)

07.2019 – 12.2019 · Retail / Mobile Payment

Developed the Scan & Go feature for the EDEKA app — mobile self-checkout from barcode scanning to exit authorization.

- Implemented the end-to-end flow: barcode scanning, shopping cart, payment process, and exit code
- Integrated the Scandit SDK for high-performance barcode scanning
- Built the UI using a mix of SwiftUI and UIKit
- Reactive architecture with RxSwift

Technologies: Swift, SwiftUI, UIKit, RxSwift, Scandit, Barcode Scanning, Self-Checkout, Mobile Payment

Siemens AG — iOS Engineer, Junelight App (iF Design Award 2019)

03.2018 – 06.2019 · IoT / Smart Home

Modernization and continued development of an award-winning smart-home app.

- Migrated the existing architecture to MVVM
- Introduced CI/CD processes
- Built out unit and UI testing
- Implemented new features
- Contributed to a multi-award-winning IoT platform

Technologies: Swift, RxSwift, GraphQL, AWS, Fastlane, GitLab CI/CD

Live Reply GmbH — iOS Engineer, Meine SWM App

11.2017 – 02.2018

Continued development and modernization of existing iOS functionality.

- Migrated to Swift 4
- Refactored existing components
- Implemented new features
- Improved maintainability of existing modules

Technologies: Swift, RxSwift, Realm, REST

KURZ Digital Solutions GmbH & Co. KG — iOS Developer

04.2017 – 10.2017

Developed several iOS applications with a focus on image processing, hardware integration, and mobile data capture.

- OCR and image recognition
- Bluetooth and RFID integration
- Developed high-performance image processing pipelines
- Concept design and implementation of new applications
- Integration of hardware-related functionality

Technologies: Swift, Objective-C, OpenCV, Tesseract, CoreBluetooth, CoreImage

LUNAR GmbH / EDEKA Headquarters — iOS Developer

2016 – 2017 · Retail

Concept design and development of several retail and customer-loyalty applications.

- Designed and built shared infrastructure
- Introduced CI/CD and QA processes
- Integrated analytics and third-party systems
- Implemented new features and refactoring
- Contributed to scalable retail solutions

Technologies: Swift, RxSwift, Realm, SnapKit, Google Tag Manager

Additional Technical Experience

Telegram Mini Apps, Web & AI

Additional experience in full-stack web development (React, Next.js, Node.js) and in building AI-powered applications — from integrating Large Language Models (LLMs) and multi-step AI pipelines to AI-assisted development workflows. Also includes work on Telegram Mini Apps.

Votum Bot — Telegram Mini App for students, with integration of payment and shipping services. *Technologies:* React, Node.js, Telegram Mini Apps

Kunuz Bot — Migrated a classic messaging platform to a modern mini app with AI-driven personalization, multilingual support, and video integration. *Technologies:* React, Node.js, Telegram Mini Apps

Earlier Projects

Combat Sport Replay System — Client-server system for capturing, transmitting, and synchronously replaying high-FPS video over network connections (real-time processing of multiple video streams, synchronized multi-camera playback, high-performance media pipelines). *Technologies:* Swift, Node.js, ffmpeg, HLS, MongoDB

Scoreboard & Live Sync Systems — Mobile applications for real-time synchronization of sports scoreboards, including video capture and dynamic overlay functionality. *Technologies:* Swift, Node.js, Socket Communication, JSON APIs

VoIP Applications (XCall / CallBack.me) — Concept design and development of mobile VoIP applications for iOS. *Technologies:* Objective-C, Swift, Xcode

Personal Projects & Experiments — Video processing, image processing, CoreBluetooth, geolocation, mobile games, REST/API integrations, media and streaming technologies. *Technologies:* Swift, Objective-C, AVFoundation, CoreBluetooth, SpriteKit, REST APIs

Education

M.Sc. Computer Science — Georg Simon Ohm University of Applied Sciences Nuremberg, 2010 – 2013 **B.Sc. Computer Science** — Tashkent University of Information Technologies, 2004 – 2007

Languages

- German
- English
- Russian