SANDEEP KOIRALA

Fairfield, IA 52557 • 641-819-2553 • sandeep.koiralaa@gmail.com
https://www.linkedin.com/in/sandeepkoirala • https://stackoverflow.com/users/654666/sandeep

Senior iOS Developer

Skilled iOS Engineer with 10+ years of experience developing high-quality apps. Leverages hands-on knowledge of core iOS frameworks and technologies, including Objective C and Swift. Familiar with frontend frameworks such as React and Spring backend development.

iOS Development (CI / CD) • Frontend Development • Backend Development • Code Signing • CI / CD
• Concurrency • Automated Deployment • Design Patterns
• ReactJS • Object-Oriented Programming • Spring Boot

Languages: Objective C, Swift, Java, TypeScript
Web: Spring Boot, React, JavaScript, HTML5, CSS3
Web Services: Microservices, Kubernetes, Helm
Frameworks: RxSwift, SnapKit, Alamofire, AFNetworking, GRDB, Spring (MVC, Boot, Security, Data, AOP, Dependency Injection, Cloud), Hibernate
Design Patterns: MVC, MVVM, MVP, VIPER, Singleton, Prototype, Observer, Decorator, Strategy, Iterator, Composite, Adapter
Databases: MySQL, SQLite, PostgreSQL
CI / CD: GitHub Actions, Circle CI, Kubernetes, Helm, Fastlane
SDLC: Agile/Scrum, Waterfall
Platforms: Mac OS
Tools: XCode, Instrument, IDEA, Git, Terminal

PROFESSIONAL EXPERIENCE

CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a *Master's Degree in Computer Science* (Available for full-time, W-2 employment).

FINNAIR PLC, Helsinki, Finland ● 2018-2022
National flag carrier airline company.

Senior Software Developer
Played key role in new features development for company's mobile applications.
- Developed new features with Swift and replaced legacy Objective C code with new Swift code.
- Introduced key app features (using UIKit, CoreData, Networking, and CoreAnimation) for seat selection, ticket upgrades, baggage purchase and payments.
- Created GitHub action scripts and used Fastlane for automated deployment.
- Automated UI and Unit tests

Technologies Used: Swift, Objective C, Core Data, Core Animation, SnapKit, Firebase, GRDB, Realm, RxSwift, Fastlane

DEXINTEL OY, Helsinki, Finland ● 2016-2018
Software consulting company.

Senior Software Developer
Performed full software development lifecycle for diverse clientele.
- Implemented analytical application for client using Laravel and Angular JS.
- Facilitated boat reservations through application creation using jQuery Mobile.
- Developed new features for Nettiauto and Nettivene iOS applications with Objective C and CocoaTouch.

Technologies Used: iOS, Swift, Objective C, Core Data, Core Animation, jQuery Mobile, Laravel, MySQL

BEDDIT OY, Espoo, Finland ● 2014-2016
Sleep tracking company.

Software Developer

Provided development of Beddit application in Objective C – facilitating sleep analysis.

- Utilized iOS frameworks (CoreData, CoreAnimation, CoreBluetooth) to read and write sleep data generated from client device during measurement.

Technologies Used*:* iOS, Core Data, Core Animation, Core Bluetooth, Objective C, XCode

INTRODEX OY, Helsinki, Finland • 2012-2014
Social media company.

iOS Developer
- Implemented Introdex iOS application with native iOS and Objective C using various frameworks inside Cocoa Touch (including CoreData, UIKit, and CoreAnimation).
- Rewrote iOS applications (NettiAuto, NettiVene) with auto layout and newest iOS features.

Technologies Used*:* Objective C, Core Data, Core Animation, UIKit

SPROUT TECHNOLOGY OY, Kathmandu, Nepal • 2011
Software development company.

Intern iOS Developer
Implemented few small features with Objective C and iOS.

Technologies Used*: iOS, UIKit, Foundation*

ACADEMIC PROJECTS

Alumni Management System, Maharshi International University (2022): Worked with team members in Web Application Architecture course – performing Spring Boot and frontend application tasks using React.
- ***Technologies Used****:* Spring Boot, Hibernate, React, Postgres, JavaScript

Library Management System, Maharshi International University (2022): Administered Spring Boot and Hibernate tasks for Modern Programming Practice course.
- ***Technologies Used****:* Spring Boot, Hibernate

Car Rental System, Maharshi International University (2022): Developed scalable a car renting application as a part of the final project for the course SA. The project used Microservice architecture, and used various components such as Kubernetes, Helm, Kafka, Feign Client to communicate from one service to another. The application was deployed to Google Cloud for the final demo.
- ***Technologies Used****:* Spring Boot, Hibernate

Prediction Emotion with Mobile Applications, University of Eastern Finland (2014): Developed iOS application (Hangman game) for analyzing user's facial emotion using on-device camera and machine learning algorithm to determine emotions as part of master thesis.
- ***Technologies Used****:* CoreML, Animations, Core Data, AVFoundation, Swift, XCode, Swift

---

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion December 2024)
Maharishi International University, Fairfield, Iowa

Key Courses: Advanced Software Development, Web Application Architecture, Enterprise Architecture, Software Architecture

Master of Science in Information Communication Technology (2014)
University of Eastern Finland, Joensuu, Finland

Key Courses: Design and Analysis of Algorithm, Machine Vision, Software Engineering

Bachelor in Electronics and Communication Technology (2009)
Pokhara University, Kathmandu, Nepal