

Edoardo D'Angelis

/* Software Engineer passionate about iOS, Swift and SwiftUI */

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Work Experience

Software Engineer *Magenta Srl – Florence, Italy* Feb 2022 – present

- Building the [greenApes](#) iOS app, a social network focused on sustainability and positive environment impact, using Swift, SwiftUI and Combine. Lead a major rewrite and successfully released 20+ versions on the App Store
- Writing Java backend microservices using Quarkus and Apache Kafka, with a focus on message-driven architecture and efficient data processing mechanisms
- Developing reactive web applications using Angular and NgRx for state management

Software Engineer Intern *Magenta Srl – Florence, Italy* Sep 2021 – Jan 2022

- Applied robust regression models based on historical data to enhance the calibration process of the [AirQino](#) air quality stations, resulting in a 15% increase in accuracy for PM_{2.5} and PM₁₀ sensors
- Optimized SQL queries and applied [Timescale](#)'s *continuous aggregates* technique to the [AirQino](#) backend APIs, resulting in a response time improvement of over 10x
- Set up a 1:1 read-only streaming replica of the primary [AirQino](#) PostgreSQL database (>100M rows) for performance tests, relieving the load on the primary database and increasing availability

Education






MSc in Computer Science & Engineering *University of Florence – Florence, Italy* Sep 2019 – Apr 2022

- Final grade: 110/110 with honours
- Thesis: Design and development of components for the [AirQino](#) platform dedicated to air quality monitoring

BSc in Computer Science & Engineering *University of Florence – Florence, Italy* Sep 2015 – Apr 2019

- Thesis: Semantic expansion of bibliographic records: using ML-based entity extraction tools (such as [spaCy](#)) and SPARQL queries to generate annotations based on geographic data

Personal Projects

- [chatgpt-telegram-bot](#)  A Telegram bot that uses OpenAI's ChatGPT, DALL-E and Whisper APIs to answer questions, generate images from text and transcribe audio files. Written in Python – 1k+ stars on GitHub
- [stats-ios](#)  A personal iOS app to keep track of movies and tv shows I've watched, books I've read, games I've played and music I've listened to. Written in SwiftUI
- [appdb](#)  A fully-featured iOS client for [appdb](#), an alternative app store for iOS devices. Written in Swift with UIKit – 200+ stars on GitHub
- [cook](#)  A macOS command line tool to automate common iOS development tasks, such as managing iOS certificates, provisioning profiles and resigning .ipa files. Written in Swift
- [dl-buddy](#)  A download manager for macOS with configurable destination, persistence and resumable downloads. Written in Swift with AppKit

Skills

- **Programming Languages**: Swift, Python, Java, TypeScript, SQL
- **Libraries & Frameworks**
 - SwiftUI, UIKit, Combine, Swift Charts, AppKit
 - Vapor, Quarkus, Apache Kafka, Angular, Flask, Pandas, Logos
- **Tools & Platforms**: Xcode, Git, GitHub, Fastlane, Docker, AWS
- **Other**: API design, relational databases, continuous integration and delivery (CI/CD), unit and integration testing

Languages

Italian (native)

English (advanced)

Interests

Open Source Software

Automation

Music

Cinema

Gaming

Football