

# Edoardo D'Angelis

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

@ [contact@edoardo.fyi](mailto:contact@edoardo.fyi)   [edoardo.fyi](https://www.edoardo.fyi)   [n3d1117](https://github.com/n3d1117)   [edoardodangelis](https://www.linkedin.com/in/edoardodangelis)

## 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 from an old Objective-C codebase and successfully shipped 30+ updates on the App Store
- Working as a consultant at [Thales Italia](#), developing a suite of applications designed to monitor airport systems and enhance the efficiency of boarding processes, using Java (Quarkus), Apache Kafka and Angular (NgRx)

**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<sub>2.5</sub> and PM<sub>10</sub> 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 for specific queries
- 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

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

## 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 – 1.8k+ stars on GitHub
- [appdb](#)  A fully-featured iOS client for *appdb*, a third party app store for iOS devices. Written in Swift with UIKit – 250+ 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
- [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
- **Libraries & Frameworks**
  - SwiftUI, UIKit, Combine, AppKit and other Apple frameworks
  - Vapor, Quarkus, Apache Kafka, Angular, Flask, Karate
- **Tools & Platforms**
  - Git, GitHub, GitLab, Xcode, Fastlane, Crashlytics, Firebase
  - Jira, Docker, Kubernetes, RedPanda, AWS
- **Other:** Experience with iOS reverse engineering and jailbreak tweaks development, CI/CD, unit and integration testing, relational databases, agile methodologies

## Conferences attended

#Pragma (2023)

#Pragma (2019)

## Languages

Italian (native)

English (advanced)

## Interests

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Open Source Software

Automation

Reverse Engineering

Football