

# ALBERTO PIA

SOFTWARE ENGINEER

## TECHNOLOGIES

### Programming Languages

**Primary:** Swift (UIKit & SwiftUI), Kotlin, TypeScript, Python  
**Exposure:** Java, Ruby

### Frameworks:

**Front-end:** *Html/CSS, React, Vue*  
**Middleware:** Node.JS, Fastify, FastAPI, Django  
**Protocols:** WebSockets, Socket.IO, MQTT  
**Databases:** SQL (Postgres, Oracle), NoSQL (MongoDB), Redis

### Cloud & Infrastructure

**AWS Services:** EC2, ECS, Lambda, S3, RDS  
**Tooling:** Docker, CI/CD, Terraform

### Engineering Standards

**Principles:** OOP, SOLID, Clean Code, Design Patterns  
**Methodologies:** Agile (sprints), Peer Reviews, SRE basics

## LANGUAGES

**Italian**  
*Native*

**English**  
*Fluent*

**Spanish**  
*Intermediate*

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## WORK EXPERIENCE

### Software Engineer

2022-PRESENT

*Fathom3*

*Sole developer of the RackEye iOS and Android apps – an IoT warehouse safety and inspection platform deployed in commercial facilities across the UK.*

- Sole technical owner of both platforms, responsible for architecture, feature development, and App Store / Play Store releases across multiple shipped major versions.
- Designed and shipped a mass-inspection feature enabling warehouse teams to assess entire aisles of racking in hours rather than days – engineered for reliability in low-signal warehouse environments where seamless offline behaviour is non-negotiable.
- Led a full accessibility overhaul across both apps: dynamic font sizing, accessibility IDs, and localisation – enabling automated UI testing and a more inclusive experience for all users.
- Built an internal IoT device management console with a GraphQL API, WebSocket-based live communications, and a React front-end to monitor the real-time state of the deployed hardware fleet.

### News Scraping & Classification Pipeline

2025

*Bryant Research*

*Solo project – end-to-end data pipeline for large-scale article collection and classification.*

- Designed and built a pipeline that automated article collection across paywalled and restricted sources using Selenium and BeautifulSoup, extracting clean text from 50,000+ articles while stripping ads and surrounding noise.
- Fed the processed corpus into a BERT-based classifier for topic categorisation; managed delivery end-to-end for a non-technical research team.



## EDUCATION & TRAINING

### Master of Engineering | University of Sheffield (UK)

Software Engineering | 2018 - 2022

*Class One with Honours*

### GCE A Levels | Doha College (Qatar)

Italian, Maths, CompSci, Physics | 2016 - 2018

*Grades: A\*AAC*



## NOTABLE ACHIEVEMENTS

### University Blues Band Coordinator

As the University of Sheffield official Blues Band coordinator, I've managed an ensemble, organised successful rehearsals and performances for a diverse group of students, fostered teamwork, and helped new musicians find their feet.

### Model United Nations

Gained confidence as a delegate and head of committee in 10 Model United Nations conferences, excelling in speech delivery, collaboration, conflict resolution, and report writing.