Markos Zoulias Charatzas - markos@qnoid.com

Software Engineer in iOS/macOS apps and Java Enterprise (20 years of experience) BSc (Hons) Information Technology - University of Sunderland (2003)

Profile - https://github.com/qnoid/

I have been able to upskill, re-train, evolve, grow and adapt to the technological changes that the last 20 years have brought in the tech industry. I started as a Java Enterprise Web Developer back when I had to provision infrastructure and be a system administrator. Soon after the iPhone was announced, I took an online Stanford Course on iPhone Application Development and became well-versed in Cloud computing.

The technological change that generative artificial intelligence brings requires you to have experienced, skilled, well-rounded software engineers who possess a deeper understanding of how software works. You need experts who know how to operate AI agents to produce and deploy code with high confidence and a low risk of failure that could otherwise prove costly to your business.

Professional Experience - https://www.linkedin.com/in/qnoid/

iOS Developer

Jun24 - Apr25 Affected by layoffs Medable (Remote, UK) www.medable.com

iOS Developer

Jan23 - Dec23

Capital One (London, UK) www.capitalone.co.uk

Mac Developer

Aug22 - Oct22 Affected by layoffs Sketch (Remote, UK) www.sketch.com

swift, swiftui, combine, copilot, generative AI, objective-c

Core developer on the Medable iPhone app; used by mid-large Pharma to run clinical trails.

- * Implemented a SwiftUI view to enter a code, one digit at the time, delete and support paste.
- * Debugged and fixed a number of retain cycles in that were causing an invalid tabbar layout.
- * Worked on a large, unfamiliar, complex codebase across objective-c/swift and UIKit/SwiftUI.

swift, combine, web sockets, technical lead

Lead developer on the Capital One iPhone app; a mobile banking app.

- * Implemented a real time chat feature, in UIKit, combining REST calls and web sockets.
 - * Implemented an algorithm to ensure no data loss, no duplicate messages, ordering.
 - * Implemented support to retry a message in case of a send failure due to a network error.
- * Debugged, traced and fixed an issue in closed source code using Ildb, frames and registers.
- * Lead architectural decisions across the mobile app and the backend services.
- * Mentored junior/graduates that were part of the core team.

swift, appkit, graphql, instruments, profiler, memory

Core developer on the Apple Design Award-winning Mac app for designers.

* Solved a performance issue that had a severe impact on the rendering of a tree document.

kotlin, co-routines, vert.x, graphql, rdbms, docker, payments

* Solved a memory leak on a critical production issue as the cause of an unbounded growth of sockets

Technical Lead

Mar21 - July22

(Remote, UK)

www.kodypay.com

KodyPay

No. 2 engineer, direct report to the CTO, on a retail, ordering, payments app. * Technical Lead on a platform of 6 codebases

- * Technical Architect on how to process payments and implement 3DS transactions
- * Provisioned a continuous delivery pipeline that supported 4 platforms (Web, iOS, Android, Backend), 2 languages (Angular, Kotlin), related tooling, integrations (GitHub, VPN, AWS, AppCenter), environments (development, staging, production), topologies.
- * Created and ran a rigorous, 2 stage hiring process for multiple disciplines (Web, Mobile, Backend, QA, DevOps) that resulted in a team of 14 engineers with high retention rate and great culture fit.

Founder

Feb 18 - Jan 20

Windmill https://windmill.qnoid.com

swift, appkit, cloudkit, storekit, java enterprise, rdbms, aws

Solo engineer of a continuous delivery platform for iPhone apps, built from the ground up.

- * Windmill on the Mac is a native macOS application written in Swift 5 on Xcode 10 targetting macOS 10.14. The codebase is about 16k LOC. https://github.com/qnoid/windmill-osx
- * Windmill on the iPhone is a native iOS app written in Swift 5 on Xcode 10 targetting iOS 12.2.The codebase is about 5k LOC. https://github.com/qnoid/windmill-ios
- * The Windmill REST API is a Java EE 8 implementation written in Java 8 using JAX-RS. The codebase is about 7.5k LOC. https://github.com/qnoid/windmill-api
- * Deployment on AWS using EC2, RDS and S3 to manage distribution of iOS apps.

iOS Developer

Feb17 - Jun17

Aludio (London, UK) swift, mvvm, rest api

No. 3 hire, direct report to the Head of Engineering and CEO, on a booking, payments app.

* Core developer on the ACORN MVP iOS app.

* Lead the project delivery of the ACORN MVP iOS app.

Head of Mobile

Sep15 - Oct16

(London, UK)

www.soldo.com

Oct 13 - Mar 15

Tesco Bank

(Edinburgh, UK)

www.tescobank.com

Soldo

swift, rest api, payments

Spearheaded the development of Soldo - The Family Spending Account on the iPhone.

* Performed a 2 day training to introduce agile practices to product and development teams.

* Setup Xcode bots to use as a continuous integration/delivery pipeline for releases.

* Planned a hiring process, conducted technical and cultural fit interviews to recruit mobile developers.

* Directly managed 2 developers, established work responsibilities and steered culture.

iOS Developer

objective-c, swift, rest api, technical lead, mobile banking

Responsible for the technical delivery of Tesco Bank Mobile Banking on the iPhone.

* Implemented code to check for outdated security policies, download and run security checks.

* Implemented lazy, dynamic grouping of partial data fetched over the network for a table view.

* Setup CI from the ground up using Jenkins integrated with Bitbucket to make nightly builds available via an Apache Web Server.

* Devised a strategy to securely deliver an iPhone app over-the-air for up to 1500 users using AWS.

* Advising senior management on development practices, testing strategies and risk mitigation on project deliveries.

* Planned a hiring process, conducted technical and cultural fit interviews to recruit iOS developers

iOS Developer

Junll - Sep13

objective-c, technical lead, mobile banking

* Technical Lead on a project of 3 code bases (iPhone, Android, JEE) and responsible for 4 people.

* Involved in documenting development processes and software design.

* Developed an endless scrolling, in memory, table view for paging data over the network.

* Developed a role based, feature availability for an iPhone app that is server driven.

NCR (Edinburgh, UK)

* Developed a maven plugin for automating blackberry builds (sign, verify)

Java Developer

Jun 10 – Mar 1 I Fixed Contract java enterprise, api design, javacard, rdbms, xml, payments

* Designed and developed an API to perform authentication, exchange and validate messages with a socket server

* Designed and developed a logging API supporting the idea of rules, streams and formatters (XML focused)

Helixion

(Edinburgh, UK)

* Designed and developed an API for emulating a terminal reader as a state machine

www.helixion.com

Java Developer Jun09 – Aug09

java enterprise, jpa, rest api, json, jsp el

* Developed a football manager web application.

* Leading a Junior to develop a live reporting web application for journalists.

* Initiative to setup automated tests and dependency management.

24 Media (Athens, Greece) www.24media.gr

Java Developer Oct03 - May07 java enterprise, struts, hibernate, axis soap, velocity, digester

* Core developer for Enosis - http://www.enosis.gr

* Core developer for OpenSeas - http://www.openseas.gr

* Developed a web service for OpenSeas

Forthnet S.A. (Crete, Greece)

www.forthnet.gr

Java Developer

Nov01 – Sep02

CERN

(Geneva, Switzerland)

http://www.cern.ch

java enterprise, xml, sql, rdbms

* Core developer of an online search engine for EDH

* Developed a J2SE application to migrate an Oracle database

Speaker - https://www.youtube.com/@gnoid

- * NSLondon Group, "Debugging Closed Source Code", London, UK. https://www.youtube.com/watch?v=p60VcwlvwY8
- * Athens iOS Meetup Group, "iOS Release Pipeline", Athens, Greece. https://www.youtube.com/watch?v=IVbn7vd7EWY
- * iOS Conf, "Memory and CPU Profiling", Athens, Greece. https://www.youtube.com/watch?v=lyNHJOsAxls
- * The Highland Fling, "I product, 3 years, one shipment (a true story)", Edinburgh, UK. https://www.youtube.com/watch?v=hWltBs5wCl4
- * NSConference 6, "Sound Debugging", Leicester, UK. https://www.youtube.com/watch?v=rMtGcLLYIdw
- * NSConference 5, "User Identity", Leicester, UK. https://www.youtube.com/watch?v=osdDy7X0n78
- * JCrete '07, "Object Oriented Programming", University of Crete. https://vimeo.com/manage/videos/10550416

Popular Posts

- * How to replace the `rootViewController` of the `UIWindow` in iOS, https://qnoid.com/2019/02/15/How_to_replace_the_- rootViewController- of the -UIWindow- in iOS.html#main
- * A primer in HTTP caching and its native support by iOS, https://qnoid.com/2016/04/10/A-primer-in-HTTP-caching-and-its-native-support-by-iOS.html#main
- * A series of steps, https://qnoid.com/2019/05/07/A-series-of-steps.html#main
- * Sound Debugging, https://qnoid.com/2013/06/08/Sound-Debugging.html#main

Education

2009 - 2010 Winter

CS 193P iPhone Application Development

Stanford University (iTunes U)

cs193p.sites.stanford.edu/

May06

JAVA 5 DELTA & JAVA PATTERNS COMBO COURSE

Javaspecialists (Chania, Crete)

www.javaspecialists.eu/

Class of 2003

BACHELOR (IN SCIENCE) INFORMATION TECHNOLOGY

University of Sunderland (Sunderland, UK)

www.sunderland.ac.uk/

Projects

windmill

Feb 18 - Jan 20

Windmill provides in-house continuous delivery for iPhone apps. It is a platform made up of a macOS and an iPhone app supported by a REST API written in Java EE, running on AWS. The Windmill source code has since been made public and is available at https://github.com/qnoid

https://windmill.gnoid.com/

verylargebox

Oct 10 - Mar 13

https://github.com/qnoid/ verylargebox verylargebox was a retail app that enabled local shops to have an online presence and reach out to customers on their iPhone. The app was written in Objective-C with the backend written in Ruby on Rails running on Heroku. Even though it was released on the App Store, it became apparent I had to raise money and go down the startup route. I made the decision not to go down that path which lead to its shutdown.

- * Developed an iPhone app that spawn 3 open source libraries (VLBCameraView, VLBScrollView, VLBAlertViews) and introduced a way to authenticate a user without the need of a password (VLBUserIdentity).
- * Learned Ruby on Rails to build a REST API deployed on Heroku.
- * Implemented an architecture to store photos on AWS directly from the app, ping the server on Heroku to resize and store.
- * Optimised AWS and Heroku regions for low latency and fast transfers.
- * Monitored and optimised web and database transactions using New Relic.
- * Setup a mail service using Mandrill for user registrations.