



# Zois V. Avgerinos

iOS Senior Engineer - Architect

## contact

7th Grivas St.  
Glyfada, Athens  
GR-16561, Greece

+306985016790  
@ zois@tuta.io



## Education

Master of Science in  
Engineering (MSE)  
Information Systems

Master of Science in  
Engineering (MSE)  
Electronics & Telecommunications

Bachelor of Science (BSc)  
Physics Science

## Top Skills

Expertise in iOS development with  
Swift and Objective-C

Strong grasp of mobile app  
architecture and design patterns

Experience developing apps in  
regulated environments

Strong grasp of blockchain  
protocols such as Ethereum and  
Bitcoin

Knowledge of secure coding  
practices and mobile security  
issues

Experience with continuous  
integration and delivery tools

Familiarity with Agile  
methodologies and working in Agile  
teams

Mentoring and guidance of other  
mobile engineers

Familiarity with networking  
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Experience in integrating  
third-party libraries and  
frameworks

Strong communication skills for  
cross-functional team collaboration

Dedication to staying up-to-date  
with emerging technologies

## about me

As a **senior iOS engineer with over 10+ years of experience in iOS and 16+ years as a software engineer**, I am proud of my ability to deliver high-quality, innovative mobile applications. Through a deep understanding of iOS development and emerging mobile technologies, I have been able to develop and implement cutting-edge features with a focus on **user experience, performance, and security**. My experience in developing and maintaining large-scale iOS applications has allowed me to become a **technical leader** within my team, mentoring and guiding other developers towards the best practices in mobile engineering.

My dedication to staying up-to-date with the latest iOS advancements and continuously improving my skills has allowed me to consistently deliver high-quality iOS applications that meet the evolving needs of users in the rapidly-changing world of mobile development.

## experience

FEB2023 - Today  **BINANCE**  
*Senior iOS Engineer | Architect*

Grand Cayman, Cayman Islands

As a senior iOS engineer in Binance and the Trust Wallet team, I am proud of the work we have accomplished in successfully deploying cutting-edge web3 features, such as **account abstraction** and blockchain bridging, using the latest iOS technologies. Our team's deep technical expertise in mobile engineering and blockchain technology has enabled us to deliver these features with a focus on **usability, performance, and security**.

Through our commitment to staying up-to-date with emerging technologies and continuously improving our skills, we have been able to deliver a **high-quality iOS non-custodial wallet** app rich of features that meet the evolving needs of users in the rapidly-changing world of mobile development. The successful deployment of these features is a testament to our team's dedication to pushing the boundaries of what's possible in mobile blockchain development and delivering industry-leading solutions for our users.

- **Design** and **develop** high-quality iOS wallet app for the Trust Wallet team within Binance, utilizing **cutting-edge technologies** and best practices.
- **Collaborate** with cross-functional teams to define and implement technical solutions that meet business and user needs for Trust Wallet.
- **Drive** the development of mobile applications and features, ensuring that they are scalable, performant, and maintainable for Trust Wallet.
- **Evaluate** and **recommend** emerging iOS technologies and frameworks, staying up-to-date with industry trends and best practices for the Trust Wallet team.
- **Mentor** junior iOS engineers on the Trust Wallet team, helping to develop their skills and capabilities.
- **Identify** and **mitigate** technical risks, ensuring that Trust Wallet's iOS systems are secure, scalable, and maintainable.
- **Participate** in the development of iOS development standards and guidelines for Trust Wallet, ensuring consistency and quality across Binance's mobile products.
- **Communicate effectively** with both technical and non-technical stakeholders, presenting technical concepts in a clear and accessible manner for the Trust Wallet team.
- **Contribute** to the broader technical community both within Binance and externally, through speaking engagements, open source contributions, and other initiatives on behalf of the Trust Wallet team.
- **Drive innovation** and creativity in iOS technical solutions for Trust Wallet, challenging assumptions and exploring new approaches to problem-solving.

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Web3.swift

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CoreData | SQLite | Realm

Alamofire | Moya |  
ObjectMapper

Firebase | AWS Mobile Hub |  
Azure Mobile Apps

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NWO \$PBLCNFT

0xfBaE39320AA6E4Aee6829489aed0eb2CC32a6459

NWO Staking

0x1502Fb51A6Bf1884b33Dc4A38958E8C1E818146E

0x50202d4E2C96E11ED54f94e4f37BD194901901e3

## NFTs

Opensea  
Zois Avgerinos

FEB2021 - FEB2023  **BLOCKFI**  
Staff iOS Engineer | Architect

New York, USA

As a Staff iOS Engineer in BlockFi, I was responsible for leading the development of a **native iOS crypto app** that incorporated a wide range of **web3 features**. To achieve this, I worked closely with other engineers and **stakeholders** to design and implement a **mobile app architecture** that was both **secure** and **user-friendly**.

Through extensive use of the latest **iOS technologies** and **frameworks**, we were able to create an app that was **responsive**, **scalable**, and provided a **seamless user experience**. This involved integrating **blockchain technology** with the app's native features and functionalities, including support for **cryptocurrency wallets**, **portfolio management**, **trading**, and **analytics**.

- Successfully **leading the development** of a globally distributed team of over 30 engineers across AMER, EMEA, and APAC, providing daily **mentorship, guidance, and oversight** to ensure project success.
- Expertly evaluating, identifying, and **designing software solutions** utilizing **modern design patterns and architectural styles** to deliver robust and efficient software.
- Implemented processes throughout the software development lifecycle to ensure **software quality** and adherence to ISO 25000 standards for software and data quality.
- Created detailed **technical documentation** and an Architecture Document to fully document and showcase the software.
- Actively participated in the planning, tracking, and scheduling of software deliverables, including services and mobile apps for AppStore and GooglePlay.
- Proactively monitored production applications for issues and quickly located and directed solutions to **resolve critical challenges** and implement new functionalities.
- Built and maintained **strong working relationships** with all team members and dedicated time for **mentoring and career guidance** for individual team members.
- **Adept** at working with full agile processes, including Scrum and Kanban, to effectively manage project deliverables and timelines.

NOV2018 - FEB2021  **ADVANTAGE FSE** (fiserv. business partner)  
Tech Lead - Senior Software Engineer

Athens, Greece

As a tech lead at Advantage FSE, I am incredibly proud of the work we've done to deliver banking mobile apps in banks all around the globe and other cutting-edge fintech products. Our team's deep technical expertise in mobile engineering and financial technology allowed us to develop these products with a focus on **security**, **scalability**, and **user experience**. Through agile development methodologies and a commitment to staying up-to-date with emerging technologies, we were able to deliver high-quality products that meet the needs of our clients in the rapidly-changing world of fintech.

The successful delivery of these products demonstrates our team's dedication to pushing the boundaries of what's possible in the financial industry and delivering industry-leading solutions for our clients.

- Successfully **led the development of high-end solutions** in the Finance sector, utilizing **state-of-the-art technology** and innovative business principles to deliver cutting-edge solutions.
- Expertise in Agile software development, utilizing **modern development methodologies** to deliver high-quality applications.
- Proven experience in **solution architecture and software analysis** for digital banking systems, with a strong understanding of the unique challenges and requirements of this industry.
- Demonstrated proficiency in using both Objective-C and Swift 5 in complex projects, effectively utilizing the strengths of both languages to deliver efficient and reliable code.
- Implemented and managed CI/CD pipeline using Jenkins and automated UI testing to ensure software quality and timely delivery.
- Acted as a technical lead providing **guidance and mentoring** to the team on best practices and development methodologies.

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MAR2015 - NOV2018 **FUTURA DEFENCE LTD**

*Tech Lead - Senior Software Engineer & Software Simulation Modeller*

Guildford, UK

- **Team leading** of a highly distributed team (London, Athens, Perth and Canberra).
- Application and **deterministic model development** to support higher military management in decision making for campaigns and tactical workforce management.
- Agile software development using **.NET stack** for projects in the defence sector (UK Navy, Royal Australian Navy).
  - **WPF** desktop solutions and **SaaS** architecture using **Azure** cloud development.
  - Functional analysis and solution architecture.
  - Data analysis, data visualization (**Tableau**) and software modelling (Powersim Studio 9/10).
- **CI / CD TeamCity** and **Automated UI** testing.

NOV2012 - MAR2015 **OPENBET TECHNOLOGIES LTD**

*Senior Software Engineer*

Chiswick, UK

- Agile software development for all major companies in betting (William Hill, Coral, Ladbrokes, Paddypower, Betfair, PMU).
- Software and **business analysis** for the betting industry.
- Fullstack development.
  - Frontend development using all mainstream web technologies (**Javascript, AJAX, JQuery, HTML/CSS**).
  - Application server development (backend) using **TCL** and **Informix database**.

JUN2010 - NOV2012 **MUNICIPALITY OF MEGANISI**

*IT Administrator - Software Engineer*

Lefkas, Greece

- Windows **System Administration**.
  - Windows 2000/XP/7, Windows Server 2000/2008.
  - Software and Hardware administration, maintenance and security.
  - **Oracle 9i Database** - Installation, administration.
- **LAN Administration** - Network maintenance, monitoring and security (including hardware).
- Web Developer, Administration and Design - **DotNetNuke portal, Javascript, JQuery, Photoshop**.

DEC2007 - JUN2010 **NOKIA SOLUTIONS AND NETWORKS**

*Software Engineer*

Athens, Greece

- **ISUP & SIP** telecom protocols - Customer specific adaptations on telecom features.
- Code analysis, design, maintenance - **Assembly/C++**, source & patch coding, simulation (Windows and Linux Platforms).
- Code testing - Unit, Integration & Regression. **Real time simulation**. Test Cases (Mercury Test Director), Test Automation.
- Waterfall and Agile (SCRUM) methodology.

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NWO Staking

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## NFTs

Opensea  
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## mobile engineering

2012 - Today **iOS and Android**

Application development and release management for mobile platforms

Focus on **Quality Attributes** (non-functional requirements)

- **Accessibility, Availability, Maintainability, Scalability, Testability, Reliability, Resilience**
  - SOLID Principles, Design Patterns
- **Security**
  - MobSF Framework, SOC 2 Compliance
  - Fraud Management e.g. Accertify, Sardine
- **Observability**
  - Sentry, Datadog, Amplitude
- **Modularisation**, Composable Content Platform, CMS
  - Contentful

AppStore and GooglePlay delivery

### native iOS

- XCode 14, iOS 16, XCode Cloud
  - **SwiftUI**, Autolayout, Core Data, In-App (StoreKit), Multipeer Connectivity, Core Location, MapKit, MessageUI, ARKit, **App Clips**, App Shortcuts
  - Pods, **Swift Packages**, Carthage
- Swift 5+, Objective-C
  - **Async Await**, **Combine**

### native Android

- Android Studio, Visual Studio Code, Java

### multiplatform

- **Xamarin.Forms**
  - **XAML**, Markup Extensions, Behaviors, Triggers, **Custom Renderers**, Platform Specifics
  - Xamarin.iOS and Xamarin.Droid
- **Flutter** - Dart, MobX
- **React** - React Native, Redux
- **Ionic Framework**, using Angular JS and Typescript

## blockchain

2018 - Today **Publicae.org | NWO \$STATE**

Co-founder & CTO

Ethereum, Solana | Blockchain Specialization

### Smart contract development & deployment

- **web3**, Solidity, **Truffle** Suite (Truffle, Boxes, Ganache, Mocha), Remix
- **Rust**, Cargo

### Blockchain Platforms

- **Hyperledger Fabric**, **IPFS**, Decentralized Finance **DeFi**

### Cryptocurrency development

- **ERC-20**, **ERC-1155**
- Tokens created: PBLC, STATE
- STATE Staking Dapp (ReactJS, GraphQL, Ethereum)

### NFT development

- OpenSea Collections
- **ERC-721**
- NFT created: PBLCNFT
- NFT Staking Dapp (ReactJS, GraphQL, Ethereum)

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## specializations & publications

Software Design & Architecture ⬇

Blockchain Specialization ⬇

Period doubling, Feigenbaum constant and time series prediction in an experimental chaotic RLD circuit ⬇

M.P. Haniyas, Z. Avgerinos, G.S. Tombras  
Chaos, Solitons & Fractals, 2007

## education

oct2010 - MAY2014 **Master of Science in Engineering (MSE) - Information Systems** ⬇

Hellenic Open University - School of Science and Technology

**thesis:** "Application Development for Competitive Games in Mobile Handsets - iOS Platform"

This thesis is about the development of a game application for the Apple iOS operating system, featuring development of Artificial Intelligence concept through Reinforcement Learning and Artificial Neural Networks as well as wireless connectivity via WiFi/Bluetooth for multiple devices. ⬇

oct2004 - oct2006 **Master of Science in Engineering (MSE) - Electronics & Telecommunications** ⬇

University of Athens - Faculty of Physics, Faculty of Informatics and Telecommunications

**thesis:** "Chaos study in RLD circuit"

This thesis is about the study of chaotic behaviour in a RLD circuit that may lead to a cryptographic secure data connection. ⬇

SEP1999 - SEP2004 **Bachelor of Science (BSc) - Physics Science** ⬇

University of Athens - Faculty of Physics

**thesis:** "Digitally Controlled Current Sources"

This thesis is about programming ATMEL microcontroller in C language using AVR Studio. It involved programming of RS232 interface, SPI interface and Maxim's Digital to Analog Converter. The project involved design of the Schematic and PCB via CAD program (PSPICE, ExpressPCB) as well as hardware implementation and testing. ⬇

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## technical skills

### programming

#### LANGUAGES

C# 7, C++, C, Objective-C, Swift 5, Rust, Go, Elixir, JAVA, Javascript, Typescript, Solidity, Dart, CSS3, HTML5, TCL, PHP, Python, XML, Gherkin, Assembly, LaTeX

#### .NET

LINQ, WPF, ASP.NET

- **IDE:** Visual Studio 2017+, VS for Mac, VS Code
- **ORM:** nHibernate, Entity Framework
- **IoC:** StructureMap, Autofac
- **MVVM:** CaliburnMicro, Prism

#### WEB

AngularJS, jQuery, AJAX, Bootstrap 3/4, Razor, ASP.NET MVC 5, ASP.NET Core 2, Node.JS, Laravel, WordPress

#### MOBILE

native iOS / Android, React Native, Xamarin, Flutter, Ionic

#### DATABASES

SQL Server, IBM Informix, MySQL, MongoDB, Redis

#### SCRIPTING

TCL, Bash, PowerShell, nant

#### TESTING

XCTest, Mocha, Specflow, White, XUnit, NUnit, Fixie

## architecture

#### Design

DDD, CQRS, TDD, BDD (Cucumber, Gherkin), SoA, Microservices, Cloud (IaaS, PaaS, SaaS)

#### Eventing, Event Streaming

RabbitMQ, Apache Kafka

#### API

REST, GraphQL (Apollo Server, AWS AppSync), WebSocket

#### Network

TCP/IP, SS7, SIP, NGN, SSH

## OS

Linux, Windows, MacOS, iOS, Android

## devops

#### Continuous Integration / CD

TeamCity, Jenkins, XCode Cloud, AppCenter, nant

#### Cloud Architecture & Deployment

Microsoft Azure (ARM, Portal, Powershell), Amazon AWS, Google GCP, Oracle Cloud, Firebase

#### Observability

Grafana, Prometheus, Datadog, Sentry

#### Containers

Docker, Kubernetes

#### Source Control

Git, SVN, CVS, ClearCase

#### Project Tracking

JIRA, Confluence, Trello, ClearQuest



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## simulation, data analysis

### Software

Powersim Studio 9/10, Tableau (Desktop & Server)

### Hardware

Multisim, PSpice, LabView, PCB design

## data science

### Machine Learning

Reinforcement Learning, Artificial Intelligence (AI)

## IoT

### ESP32

Arduino, MQTT, Camera surveillance , GPS tracking

## interests

**professional:** iOS development, software engineering & architecture, blockchain, ethereum, solana, machine learning, AI, data and risk analysis

**personal:** cosmology, poetry, target shooting, football, basketball, chess, snooker, pool, IoT, Drones (DIY)