

Zois V. Avgerinos

Staff Engineer - Architect

contact

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

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@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

Native mobile app development

Mobile architecture design

Multiplatform app development

Agile software development
methodologies

Mobile performance optimization

Continuous integration and delivery

Mobile user experience design

Mobile API integration

Blockchain mobile development

Mobile testing and automation

Strong communication skills for
cross-functional team collaboration

Dedication to staying up-to-date
with emerging technologies

about me

As a **Staff Engineer** with **16+ years** of experience and **10+ years** in **mobile** engineering, I have had the privilege of working across various sectors such as **banking, fintech, blockchain, telecom, defense, and government**. Throughout my career, I have honed my skills in designing and developing **cutting-edge** mobile solutions that meet and exceed customer requirements. My expertise in **iOS** and **Android** platforms, **web technologies**, and **cloud** infrastructure has enabled me to deliver innovative solutions that have achieved **high user adoption** and **customer satisfaction**. As a staff engineer, I have also played a key role in **mentoring** and **training** junior engineers, ensuring the development of a **highly-skilled** and **productive** engineering team.

My **extensive** experience in mobile engineering has equipped me with the skills needed to thrive in a fast-paced and challenging environment. I possess a deep understanding of the **mobile ecosystem** and **security** best practices. My experience in **blockchain** and **fintech** has given me insight into the unique challenges that come with developing secure and reliable mobile solutions. I am also well-versed in **cloud-based architectures** and **microservices** design patterns, which enables me to deliver scalable and robust solutions that meet the needs of modern mobile applications.

experience

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

Grand Cayman, Cayman Islands

As a senior engineer specialized in **mobile development** at **Binance** and **Trust Wallet**, I have successfully delivered numerous cutting-edge **web3** features and improvements to our native **iOS** and **Android** apps. My extensive experience with the latest mobile technologies, including **Swift** and **Kotlin**, has enabled me to design and implement complex solutions to support various **blockchain** use cases. I have a proven track record of collaborating with cross-functional teams to ensure the successful launch of new features and products. I also have a deep understanding of **mobile security** and have implemented various security measures to safeguard our users' assets.

- **Lead** the development of complex systems and technical solutions for the Trust Wallet team within Binance, utilizing **cutting-edge technologies** and best practices.
- Provide **technical leadership** and mentorship to junior engineers on the Trust Wallet team, helping to develop their skills and capabilities.
- **Collaborate** with other teams and stakeholders to define technical requirements, develop project plans, and ensure successful project delivery for Trust Wallet.
- **Continuously improve** development processes and methodologies for the Trust Wallet team, using data-driven insights and experimentation to drive improvements.
- **Stay up-to-date** with industry trends and emerging technologies, evaluating their potential impact on Binance's technology stack and 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.
- **Advocate** for technical excellence and best practices for the Trust Wallet team, championing the importance of quality, scalability, and maintainability in all systems.
- **Participate** in the hiring process for the Trust Wallet team, providing technical expertise and guidance to ensure that Binance attracts and retains top engineering talent.
- **Communicate effectively** with both technical and non-technical stakeholders, presenting complex technical concepts in a clear and accessible manner for the Trust Wallet team.
- **Drive innovation** and creativity in technical solutions for the Trust Wallet team, challenging assumptions and exploring new approaches to problem-solving team.

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Staff Eng

Swift | Kotlin | React Native

Firebase | AWS Mobile |
Google Cloud Platform

Certificate Pinning | OWASP
Mobile Top 10 | SSL/TLS

CoreData | SQLite | Realm

Secure Key Management |
Biometrics | Two-Factor
Authentication

Unit Testing | Integration
Testing | UI Testing

Static/Dynamic Analysis |
Encryption | Secure Coding
Practices

Encryption | Hashing |
Certificate Management

OAuth2 | JWT | SAML

Zero Trust Architecture |
Access Control |
Authentication

REST APIs | GraphQL | gRPC

New World Order

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NWO \$PBL

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NWO \$PBLNFT

0xfBaE39320AA6E4Aee6829489aeD6eb2CC32a6459

NWO Staking


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0x50202d4E2C96E11ED54f94e4f37BD194901901e3

NFTs

Opensea

Zois Avgerinos

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

New York, USA

As a Staff Engineer in BlockFi, I was responsible for leading the development of **mobile crypto apps** 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 & Android 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 \$PBLCNFT

0xfBaE39320AA6E4Aae6829489aeD6eb2CC32a6459

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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NWO \$PBLCL

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NWO \$PBLCNFT

0xfBaE39320AA6E4Aee6829489aeD6eb2CC32a6459

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0x50202d4E2C96E11ED54f94e4f376D194901901e3

NFTs

Opensea
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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)