

ALEXANDROS ARGYROU, 30Y

Software Engineer BEng, MSc

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SUMMARY

Proficient in building **high end large scale enterprise systems**. In love with **code creation** and **reverse engineering processes**. Self-motivated **problem solver**, with strong analytical skills, armed with an **in-depth experience on a plethora of cutting edge technologies**. Apart from being involved with software, I love running, lifting and playing/studying chess in my spare time.

EDUCATION

Technological Educational Institute of Western Macedonia	2014 – 2020
– BEng , Computer Science & Engineering	<i>Kastoria, Greece</i>
– Bachelor Thesis - Hybrid binary voxel map compression based on volume subdivision and run length encoding, without power of 2 limitations. A C++ approach. [http]	
Neapolis University	2021 – 2022
– MSc , Enterprise Information Systems	<i>Pafos, Cyprus</i>
– Master Thesis - Analysis, design and implementation of an enterprise investment decision support system in the cryptocurrency market, based on time-series forecasting and auto-arima models . (spring boot/react) [http]	

EXPERIENCE

Vodafone	Dec. 2025 – Present
<i>Staff Software Engineer</i>	<i>Athens, Greece</i>
• Main stack includes Microservices , Github Actions , Jenkins , Spring boot , Quarkus , Docker , Solr , AWS , Kubernetes , Kafka , PostgreSQL , Swagger , OpenSearch , ArgoCD .	
• Actively maintaining & developing 3 core platforms :	
→ DXL(Digital Xperience Layer) : A Quarkus middleware with 200+ microservices	
→ Ecommerce platform : An inhouse spring boot platform based on 30+ microservices that my team built from scratch.	
→ Retail 10 : A Monolith "under deconstruction and modernization " of an agent based platform, used by physical shops to serve customers.	
• Providing technical supervision and architectural leadership across three Agile teams, each comprising 4–7 members	
• Researching & investigating meaningful AI integrations. Interested in exposing functionalities to LLMs MCP [http]	
• Providing continuous knowledge transfer with perpetual training and mentoring to colleagues through biweekly trainings and presentations.	
• Changed the whole development flow from git-flow to Scaled Trunk Based Development [STBD] embracing CI/CD not just I/D . [http]	

Vodafone	Dec. 2023 – Jan. 2026
<i>Sr. Software Engineer</i>	<i>Athens, Greece</i>

• Built from scratch & maintain the new e-comm platform for Vodafone Greece. [http]
• Lead the back-end chapter with full responsibility for the development and implementation of the new e-commerce platform. (on chapter lead absence).
• On chapter's behalf presented our way of working with reactive programming using spring & webflux on Devstaff 2023 meeting. [http]
• Supported & Embraced the decision of using Quarkus as our middleware java technology, while explained thoroughly the advantages of compile time augmentation vs. runtime loading especially on cloud environments . [http]

- Presented a **poc** in order to demonstrate **fully automated CI/CD** with **github actions** [\[http\]](#). Migrated a huge part of the **old jenkins stack onto github's integrated CI/CD platform** for vodafone's ecommerce pipeline.
- Demonstrated and implemented a **local aws way of development** using **localstack aws mock** and k8s cluster. [\[http\]](#)
- Implemented an **aspect oriented solution**, abusing reflection idiom to demonstrate internal **spring boot aspects** on the new commerce team. [\[http\]](#)
- Interviewed and trained** junior/mid developers.

Vodafone

Software Engineer

Jul. 2022 – Dec. 2023

Athens, Greece

- Part of the backend chapter** decommissioning the old ecommerce platform.
- Implemented various parts of the new e-commerce **cloud infra** while emphasizing devops skills on **aws/eks** cluster.
- Created a poc focusing on **OpenTelemetry** usage for Microservices tracing using **splunk otel/agent** for **log/tracing integration**. [\[http\]](#)
- Created various **sql triggers** in order to **automate DB processes** upon **CRUD ops**, such as **virtual table (view) generation**.
- Integrated solr with aws Opensearch** in order to provide indexing and searching on a general cluster [document db] available for multiple organization clients. [\[http\]](#)
- Presented a demonstration on **how to build your own annotation based web framework using plain Java**, called **Virtual Octopus Server**. [\[http\]](#)
- Designed and documented exposed APIs using **Swagger** (OpenAPI)

P&I AG

Software Engineer

Dec. 2020 – Jul. 2022

Ioannina, Greece/Wiesbaden, Germany

- Part of the **payroll engine team**. Developed and maintained various parts of a **multi-million revenue product** using technologies like **Java EE, Maven, Drools, Wildfly, Jenkins, Git, Oracle & Postgre SQL**.
- Multi role player. Part of payroll's abstractions team. Developed various **containerized APIs** in order to expose engine's power on any client/project which is interested in it. Mainly use of **Spring Boot** alongside **Spring Rest, Spring HATEOAS & Docker**.
- Fully developed 2 sub-projects on my own initiative, to make my team's life easier while interacting with legacy code and binary files.
 - * An **IntelliJ plugin** [\[http\]](#), using Java & Gradle which keeps my teammates safe when they want to commit on an older cvs branch, with outdated binary files.
 - * An **.xls searcher** [\[http\]](#), using Java and Apache POI library, to keep the search process through business rules in excel files, as simple as possible for everyone.
- Responsible for every **new implementation and major refactor** in collective agreements according to law amendments, while trying to comply with proper **oop design patterns**, in order to keep the engine scalable.
- Parametrizing and utilizing **Jenkins** to provide a continuous integration service in order to automate the entire process of loading the latest build.
- Working on both windows & linux environments. keeping my code-base up to date using a variety of version control systems, mainly **git**, but also **svn** and **cvs** to update older products.

Hellenic Army

Software Engineer

Oct. 2019 – Jul. 2020

Evros, Greece

- Provided assistance in software optimization and maintenance of army's **drones micro-controllers** in **C/C++**, while I was learning interesting networking stuff from my supervisors.
- Developed a **fully functional Qt/C++ desktop application** [\[http\]](#) for military-files handling, to reduce the searching complexity of valuable information in raw documents.
- Responsible for crucial small parts of **script optimization**, in order to automate the transformation process of income messages in a private network into .xls data.
- Undertook communication systems operator training.
- Honored by army general with an "excellent service" award.**

- Main responsibilities constituted of detecting and solving various problems on electronic devices. Focused on hardware domain, especially on **chipset**, **motherboard** and **graphic cards** restoration.
- Tracked and saved data relevant to restored products on a **unix cli** based application.
- Performed an **administration role on a unix cli based supply information system**.

TECHNICAL SKILLS

- **Very comfortable (Proficient) with:** C, C++, Java, SQL
- **Familiar with:** Python, JavaScript, PHP, Ruby, Go
- **Technologies/Frameworks/Tools:** AWS, k8s, Git, Github, Gitlab, Java EE, Spring, Spring Boot, Quarkus, Qt, CMake, Maven, Gradle, Jenkins, Postgre SQL, Oracle DB.
- **preferable OS:** Linux

CERTIFICATES

- Java & Spring Academy (120hrs) – Athens Tech College. [\[http\]](#)
- Developing on AWS. [\[http\]](#)

PROJECTS

- **G. Actions CI/CD** with version auto bump [\[http\]](#)
- **Compile time augmentation** vs Runtime loading. [\[http\]](#)
- **Spring AI api** for image generation. [\[http\]](#)
- Mock **AWS** development using localstack mock aws with k8s [\[http\]](#)
- Virtual Octopus Custom **DI Framework**. [\[http\]](#)
- High Performance parallel algorithm implementation, for hyperthreading investigation [\[http\]](#)
- Fully Responsive crypto calculation **Spring Boot REST API** [\[http\]](#)
- A Java Simulation on how an **Application proxy server works**, while abusing reflection's power. [\[http\]](#)
- AI sentiment analysis and NLP(natural language process) project for over 6.000 "live" tweets about COVID-19 through Twitter's API. [\[http\]](#)
- Co-Developed a full-Stack application to manage property repair entries in a civil engineering office using Spring, Bootstrap & MS SQL Server. [\[http\]](#)
- (AI/ML) Decision Tree implementation in C++ using CART(Classification And Regression Trees) supervised learning algorithm. [\[http\]](#)
- Perceptron Neural Network for "Object" separation. [\[http\]](#)
- A mini sorting "library", C++ approach, using the fastest sorting algorithms compared by sorting speed, in both **parallel** and **serial** "environments". [\[http\]](#)
- C++/WinRT AI/ML Computer Vision Project for object detection through Window's AI APIs and SqueezeNet pre-trained deep neural network. (C++ Console Application) / (Gui deployed in Qt/C++). [\[http\]](#)
- Simple TCP Server & Client Implementation in C++/Boost, Java. [\[http\]](#)
- Voice Commands, Recognition and Reply (C#.NET GUI application). [\[http\]](#)
- A Modern Shopping Cart using html, php, bootstrap css framework, and XAMPP. [\[http\]](#)

- Minimal web application for **real time multi-object recognition and detection** through ml5.js machine learning API and coco-ssd pre-trained model. [\[http\]](#)
- Simple **voice translator** app in python alongside IBM's Watson AI light versions for NLP. [\[http\]](#)
- AI/ML C++ Implementation of **k-nearest neighbors supervised learning algorithm**. [\[http\]](#)

LANGUAGES

- Greek, (**native**)
- English, (**C2 Proficient**)
- German, **Basic communication** (Through work learning)