

# ALEXANDROS ARGYROU, 30Y

## Software Engineer BEng, MSc

Dimokratias 17 Anatoli, Ioannina 45221

📞 +30 6979304819 📩 [alexander.k.argyriou@gmail.com](mailto:alexander.k.argyriou@gmail.com) 💬 [alexander-argyriou](https://www.linkedin.com/in/alexander-argyriou/) 💬 [AlexanderArgyriou](https://www.instagram.com/AlexanderArgyriou/) 💬 [Bio](https://www.github.com/AlexanderArgyriou)

### 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

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

### EXPERIENCE

<b>Vodafone</b>	<b>Jan. 2026 – Present</b>
<i>Staff Software Engineer</i>	<i>Athens, Greece</i>
• Main stack includes <b>Microservices</b> , <b>Github Actions</b> , <b>Jenkins</b> , <b>Spring boot</b> , <b>Quarkus</b> , <b>Docker</b> , <b>Solr</b> , <b>AWS</b> , <b>Kubernetes</b> , <b>Kafka</b> , <b>PostgreSQL</b> , <b>Swagger</b> , <b>OpenSearch</b> , <b>ArgoCD</b> .	
• Actively <b>maintaining &amp; developing</b> 3 core platforms :	
→ <b>DXL(Digital Xperience Layer)</b> : A Quarkus middleware with 200+ microservices	
→ <b>Ecommerce platform</b> : An inhouse spring boot <b>platform</b> based on 30+ microservices that my team built from scratch.	
→ <b>Retail 10</b> : A Monolith "under <b>deconstruction and modernization</b> " of an agent based platform, used by physical shops to serve customers.	
• Providing <b>technical supervision and architectural leadership</b> across three Agile teams, each comprising 4–7 members	
• <b>Researching &amp; investigating</b> meaningful AI integrations. Interested in exposing functionalities to LLMs MCP <a href="#">[http]</a>	
• Providing <b>continuous knowledge transfer</b> with <b>perpetual training</b> and <b>mentoring</b> to colleagues through biweekly trainings and presentations.	
• Changed the whole development flow from <b>git-flow</b> to <b>Scaled Trunk Based Development [STBD]</b> embracing <b>CI/CD</b> not just <b>I/D</b> . <a href="#">[http]</a>	

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

• Built from scratch & maintain the new <b>e-comm platform</b> for Vodafone Greece. <a href="#">[http]</a>
• <b>Lead</b> 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 <b>reactive programming</b> using <b>spring &amp; webflux</b> on Devstaff 2023 meeting. <a href="#">[http]</a>
• Supported & Embraced the decision of using <b>Quarkus</b> as our middleware java technology, while explained thoroughly the advantages of <b>compile time augmentation</b> vs. <b>runtime loading</b> especially on <b>cloud environments</b> . <a href="#">[http]</a>

- 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

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- **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, PostgreSQL, Oracle DB.
- **preferable OS:** Linux

## CERTIFICATES

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

## PROJECTS

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- **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

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