

Georgios Fiotakis

Software & Cloud Architecture | DevOps | MLOps | Microservices

Passion for technology and knowledge. Love to hunt dreams until they become reality. Always challenging myself on overcoming my limits so as to evolve as a person. Learned to try before judge. Open-minded and passionate for life and technology!



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🌐 abstractversion.github.io/AbstractVersion/

🗄 github.com/AbstractVersion

WORK EXPERIENCE

DevOps & Cloud Engineer

Core Innovation

09/2020 - Present

Athens, Greece

Core Innovation is a company that was founded to give organisations the opportunity and ability to reach their full potential. The company focuses on bringing Machine Learning solutions on both the industry and the research field.

Achievements/Tasks

- Design & Implementation of **private & public Cloud Architecture** solutions for service deployment on the company's private rack & AWS subscription.
- Design & Implementation of **back-end software architecture** solutions and devops pipelines for different business cases.
- Design & Implementation of **event driven heterogenous data pipelines** from industrial resources & feeds them to Machine Learning algorithms.
- Designing & Implementation of **web-service architectures** that distributes predictions coming from Machine Learning algorithms.
- Design & Implementation of different **persistence strategies** utilizing different databases (SQL & NoSQL) for different data-structures & scenarios.
- Design & Implementation of the version 1.0 of **Corebeat** product, a predictive maintenance platform.

Contact: *Technical Manager* : Apostolos Chondronasios - achondronasios@core-innovation.com

Software & Cloud Architect

Real Fusion (AKKA Group)

07/2019 - 08/2020

An AKKA Group company specialized on 3D visualization. With *more than 15* years of experience, 20+ clients across the globe such as Airbus & Safran.

Integration of 3DJuump-Infinite on Microsoft Teams Platform

- Design, Implementation & Maintenance of a **Virtual Private Cloud** (VPC) solution on Microsoft Azure in order to host the 3DJuumpInfinite Engine & the rest of the system's components.
- Design, Implementation & Maintenance of a **Dev-Ops Architecture** based on Docker Engine & Swarm orchestrator validated by AKKA's Security & Software Architecture teams.
- Design, Implementation & Maintenance of a **Micro-service Ecosystem** with the usage of a variety of different technologies, which was deployed on the mentioned Dev-Ops Environment.
- **Automatization** of the procedure of the 3D files preparation & transformation for the 3DJuump-Infinite Engine
- Integration of 3DJuump-Infinite's services on Microsoft Teams platform, through a **Microsoft Teams application** & cloud deployment.

Contact: *Support Account Manager*: David Roche - david.roche@akka.eu

PERSONAL PROJECT

Microservice Architecture (02/2020 - Present)

- Discovery Service using Netflix OSS (Eureka, Zuul, Hystrix etc.)
- Cloud Configuration Server using Spring Cloud, Rabbit MQ & Git.
- Log Aggregation/Generalization using Elastic Stack (Elasticsearch, Kibana, Logstash & Beats) & Docker
- Docker, Docker Swarm, Maven & Git for DevOps
- Azure Active Directory resource architecture for the deployment of the system.
- Spring Boot/Cloud/Data & Flask for basic API integration.
- Influx DB, Mongo DB, Maria DB as NoSQL DB &
- RDBMS. Data streaming pipeline implemented with Kafka Message Broker.
- The project can be found on the GitHub repository: <https://github.com/AbstractVersion/cloud-platform>

Internet of Things Technologies focused on Smart home services - thesis (09/2018 - 02/2019)

- Integration of Kaa IoT, an open-source IoT platform, on the system.
- Design & implementation of a small Cassandra cluster to store the real-time measurements of the sensors.
- Design & build of electrical circuits for the sensors integration on Raspberry Pi.
- Implementation of the IoT platform's SDK on the Raspberry Pi so as to send the data to the cloud.
- Design & implementation of an IoT Dashboard (Control Management System of the house) with services such as : real-time data visualisation, control of the automation system, search and export historical data in a friendly format so as to be imported on Deep Learning systems.
- Designed & implemented RESTfull API's for the data distribution & visualization on the Dashboard.
- Designed & Implemented a semi-autonomous system that was responsible for maintenance of the overall temperature & humidity of the house.
- The system was deployed on a cloud server for one month and it was fully functional achieving remarkable results on my house.
- Finally, the above implementation is backed up by a scientific document reviewed by our supervisor professor mr. Christos Goumopoulos.
- The project can be found on the GitLab repository: https://gitlab.com/abs_portfolio/iot-smart-home

For more projects & information regarding my work please visit my online portfolio at :

<https://abstractversion.github.io/AbstractVersion/>

WORK EXPERIENCE

Software Engineer & Architect Digital Hub Occitanie (AKKA Group)

10/2019 – 08/2020 Toulouse, France
Research Department focusing on Digital transformation of AKKA technologies.
Contact: Digital Transformation Manager: Helene POSBIC

Software Engineer AKKA Technologies (AKKA Research)

05/2019 - 10/2019 Paris, France
Founded in 1984, AKKA Technologies today ranks as the European leader in engineering consulting and R&D services in the field of mobility. With more than 17,000 skilled employees working in more than 25 countries, the Group recorded revenue of €1.3 billion in 2017.

Achievements/Tasks

- IoT 4.0 industrial solution based on OPC-UA for the real-time monitoring of industrial robot & machines. (POC)

Contact: D.T.M. & Assistant of CEO: Georget Clement –

Back-End Software Engineer Star TV (New Television A.E)

06/2018 - 09/2018 Athens Greece
Star Channel, since 1995, is consistently one of the largest national television stations in Greece. The company also broadcasts Star International, a 24-hour Greek program, to Australia, New Zealand and North America (USA & Canada),

Full reconstruction of the back-end of the Web-TV platform.

- Designed and constructed a Relational Database in which all the platform's content is stored.
- Designed and developed the back-end infrastructure of the platform in php.
- Content Management System (C.M.S) for the Web-Tv platform, which is used from over 20 reporters to manage the platforms content.
- Google Analytics platform connection.
- Web-TV platform.

Contact: IT Manager: John Gemelos. – jgem@star.gr

VOLUNTEER WORK

Ted-X University of the Aegean (01/2015 - 01/2018)
Technical & Organization Assistant for the event of Ted-X University of the Aegean, on the island of Samos.

LANGUAGES

Greek English
Native or Bilingual Proficiency Full Professional Proficiency

French
Limited Working Proficiency

PERSONAL PROJECT

Google stock forecasting pipeline (02/2022 - Present)

- Kafka** server deployment on HAthrough Strimzi operator on a Kubernetes Cluster.
- Cron based scaper** that retrieves google stock metrics on a daily basis, structures and produces them on Kafka.
- Development and export of an **RNN based model for google stock** forecasting based on specific stock attributes (open, close, volume etc.)
- Nvidia triton inference server** deployment (K8s) with the exported model loaded. gRPC based communication implemented for inference.
- Developed & deployed & monitoring through **K8s**, of related consumer/producer services with respect to the designed architecture.
- Timeseries **data persistence** (InfluxDB) and **visualisation** through grafana dashboards.

RESEARCH INTRESTS

Cloud Computing	●	●	●	●	●
Internet of Things	●	●	●	●	●
Software Engineering & Architecture	●	●	●	●	●
Big Data Management	●	●	●	●	○
AI & Machine Learning	●	●	●	○	○
Information & System Security	●	●	○	○	○
Blockchain	●	●	○	○	○

EDUCATION

MSc at University of the Aegean (Computer Science)

09/2013 - 06/2019 Samos
Integrated Master based on:

Intelligent Systems & Data Distribution

Information Systems & Networking

Information Systems & Entrepreneurship

Diploma Thesis: Internet of Things Technologies focused on Smart home services

Phd Candidate at University of the Aegean

09/2020 - Present Samos

Hybrid Cloud resource management across mixed Environments (Edge, Fog, Public & Private cloud)

Software Architecture based on Microservices design pattern.

Machine Learning operations, optimization & automatization across a hybrid cloud environment.

Focused on Industry 4.0/5.0 use case.

Contact: Supervisor: Kiriakos Kritikos – kkritikos@aegean.gr