



GARAGANIS EVANGELOS

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EDUCATION

Master in Information Systems Development & Security

Athens University Of Economics and Business

September 2021 - September 2023

Specialized in Cybersecurity and Critical Infrastructures Protection

Thesis

Leveraging Semantic Data Lakes Capabilities Using Knowledge Graphs & Graph Technologies

Bachelor at Department of Informatics & Telecommunications

National Kapodistrian University of Athens

September 2014 - September 2020

Got my master's degree with 8.94/10 and specialized in:

- I. Data Information and Knowledge Management
- II. Computer Systems: Software & Hardware

Thesis

Web-Based Survey Manager for Building Dynamic Surveys with Nested Visualizations

EXPERIENCE

Backend Developer

Information Technology Support Centre of the Hellenic Army

During my service on the army, I was employed as a backend developer, where I:

1. Authored business logic for an inter-governmental service workflow, in Spring.
2. Developed a Java client over Greek's Government Service Insurance System (GSIS) Citizen Gate REST API.
3. Co-implemented the OAuth2 protocol over GSIS, in Spring and Spring Security.

Software Engineer and Full-Stack Developer

Niovity

September 2020 - January 2024

Niovity offers backend-as-a-service solutions and vertical repository management, over its data lake implementation. During my employment as a software engineer, I:

1. Authored the Elasticsearch management, including analytics, batch operations, custom analyzers in Java.
2. Co-implemented the front and backend parts of an in house query language compiler, over Elasticsearch.
3. Augmented the in-house query language compiler with graph operators, along with the query federation over multiple datastores (Elasticsearch & Neo4j).

4. Developed front-end applications for backoffice user interfaces and headless CMS using NextJS and React.
5. Automated the domain-driven generation of diagrams.
6. Release management and application deployment with Docker and Gradle over self-hosted environments.
7. Bonus: Conducted my master thesis on Niovity's semantic data lake to propose the utilization of knowledge graphs and graph technologies for improved data exploration, metadata management and advanced analytics.

SKILLS

Web Development

Front-end

Next.js, React, React Native, Lume, Tauri

Back-end

SpringBoot, ExpressJS, Kafka

Programming Languages

Java / Groovy, JS / TS, C, C++, Python, Rust

Databases

Elasticsearch, Neo4j, MySQL, OLAP - Apache Spark, Firebase

Data Science

Handful AI & DS projects, comfortable with Kibana, Neo4j GDS, Apache Echarts.

Other worth mentioning assets

- CI / CD with Docker & Gradle pipelines.
- Blockchain technologies, Solidity.
- Cloud technologies, OpenFaaS.
- Linux and Shell Scripting.

PROJECTS

Dev-Study (React, Elasticsearch, Express) Web-based survey management tool, offering advanced analytics and intuitive survey building, used to conduct developer surveys.

Scrum Tool (VueJS, Java, SQL) Web cooperative platform that helps teams to implement software projects based on agile methodology (SCRUM) via sprints, epics, user stories and issues.

Semantic Analysis For Minijava (Java, LLVM, CLang) Implementation of Minijava compiler producing linear level IR for a subset of instructions of LLVM language.

Game of life (C, CUDA, MPI) Conway's Game of Life, solved using parallel programming with C, Open-MP and CUDA.

Cryptocurrency Recommendation System (C++) Crypto recommendation using sentiment analysis over twitter data, KNN/clustering C++ implementation and 10-fold validation.

Bank's Clients Classifier (Python, Sklearn) Implementing a model to classify bank clients as either good or bad loan candidates, utilizing data exploration and feature selection techniques.

You can find a complete list of my projects, articles and presentations under [egaraganis.dev](https://github.com/egaraganis).

VOLUNTEERING

Cognihub Co-creator of Cognihub's interdisciplinary hub revolving around cognitive science.

Pyrsos Co-creator of Pyrsos programmers blog post.