

## Personal Statement

Enthusiastic Software Engineer interested in the Space Sector. Enjoys writing code and solving complex problems. Currently working as a Software Engineer, with a focus on AI and development, for Starion Group, in Frascati, Italy.

## Employment History

02/2025-Present	<div> <div> <div>STARION</div> <div> <div>AI Software Engineer</div> <div>Starion Group (former Rhea Group), Italy</div> <div> <ul style="list-style-type: none"> <li>▫ Designing, developing and implementing AI models</li> <li>▫ Collecting and pre-processing data</li> <li>▫ Designing and implementing supporting tools and libraries</li> <li>▫ Analyzing data and statistics</li> <li>▫ Participating in bidding processes</li> </ul> </div> </div> </div> </div>
05/2024-Present	<div> <div> <div>STARION</div> <div> <div>Software Engineer for a Web Application</div> <div>Starion Group (former Rhea Group), Italy</div> <div> <ul style="list-style-type: none"> <li>▫ Maintaining and enhancing a Spring Boot web application by adding new features, fixing bugs and improving functionality</li> <li>▫ Managing application configurations and environment-specific properties for various deployment environments</li> <li>▫ Following Agile methodologies, including participating in sprint planning and daily stand-ups</li> </ul> </div> </div> </div> </div>
05/2023-05/2024	<div> <div> <div>STARION</div> <div> <div>Software Engineer for a Digital Twin Prototype</div> <div>Starion Group (former Rhea Group), Italy</div> <div> <ul style="list-style-type: none"> <li>▫ Designing, testing and developing software</li> <li>▫ Modelling, building, and testing AI software</li> <li>▫ Collecting and pre-processing data</li> <li>▫ Analyzing data and statistics</li> <li>▫ Participating in bidding process</li> </ul> </div> </div> </div> </div>
09/2022-11/2024	<div> <div> <div>STARION</div> <div> <div>Copernicus Service Software Engineer</div> <div>Starion Group (former Rhea Group), Italy</div> <div> <ul style="list-style-type: none"> <li>▫ Supporting the implementation and maintenance and design of complex, critical applications</li> <li>▫ Verifying and validating SW applications</li> <li>▫ Designing and implementing supporting tools and libraries</li> <li>▫ Supporting and designing IVV activities and carrying out investigations in case of operational problems and open anomalies</li> <li>▫ Developing applications</li> <li>▫ Participating in bidding processes</li> </ul> </div> </div> </div> </div>
06-08/2017	<div> <div> <div></div> <div> <div>Summer Intern</div> <div>Athens Water Supply and Sewerage Company S.A.</div> <div>Division for Public Sector &amp; Large Clients</div> </div> </div> </div>

## Academic Qualifications

2014 – 2022



### **National and Kapodistrian University of Athens, Greece**

Major in Informatics and Telecommunications

Specialization in Data and Knowledge Management

Certificate of Pedagogical and Didactic Competence

Grade: Very Good

Thesis: Convolutional Neural Networks and their Application in Cancer Diagnosis based on RNA-Sequencing (Grade: 10/10)

2015 – 2018



### **Deree – The American College of Greece**

Minor from Frances Rich School of Fine and Performing Arts in Visual Arts

Classes: Photoshop, Drawing, Painting, Color and Design II, Video Art and Editing,

History of Western Architecture

Grade: 3.3/4

2007 – 2014

### **Othisi School**

Apolyterion

Grade: 19.2/20

## Seminars

12/2023-02/2024

### **Complete TensorFlow 2 and Keras Deep Learning Bootcamp**

Online Seminar in Udemy: Python for Deep Learning with Google's latest TensorFlow 2 library and Keras

09/2022-01/2023

### **Data Science School by Workearly**

Online seminar: Reporting & data visualization (Power BI and Tableau), Databases (SQL), Python and applications in Data Science

06-08/2022

### **Machine Learning with AWS**

Online seminar on Udemy: Learning to build Computer Vision and NLP apps using AWS

05/2019

### **Rails Girls Athens v4**

Two-day Workshop: Designing, Prototyping and Coding with Ruby

01-05/2017

### **Deree – The American College of Greece**

Course: Learning to code with C# and Unity. For the final project a survival FPS game was developed

## Projects

04/2022

### **Naïve Bayes Implementation C++**

A custom implementation of the Naïve Bayes algorithm in C++ on an imdb dataset.

10/2021-02/2022

### **Convolutional Neural Networks and their Application in Cancer Diagnosis based on RNA-Sequencing** Python, Tensorflow, Keras, R

BSc thesis in Deep Learning for diagnosing and classifying cancer types, using RNA-sequences converted into 2D images

04/2021-05/2021

### **Compilers Project** Java, JFlex, Java CUP

Custom minijava compiler, performing semantics checks and translation to LLVM

11/2020

### **Database Management Systems C**

A DBMS that uses block files. There are three implementations:

- heap file organization
- hash table organization
- hash table organization with primary key (id) and secondary key (surname)

11/2020	<b>Algorithm Project</b> Python This project consists of 3 parts: <ul style="list-style-type: none"> <li>▪ a bottleneck autoencoder for image compression</li> <li>▪ heuristic or approximate search for KNN images using Manhattan Distance</li> <li>▪ heuristic search of the 10 NN images using Earth Mover's Distance</li> </ul>
10/2020	<b>Autoencoder</b> Python, Tensorflow, Keras This project trains an autoencoder model to encode and reconstruct images
03/2020-06/2020	<b>Disease Monitor</b> C/C++, bash script Q/A application that monitors diseases, stores patient records and executes commands regarding disease statistics. Includes: <ul style="list-style-type: none"> <li>• Version 1: Hand-written data structures (Linked List, Hash Table, AVL Tree, Max Heap, Priority Queue)</li> <li>• Version 2: Child processes using forks to divide the records and the commands</li> <li>• Version 3: A multi-threaded server and a client</li> </ul>
04-05/2020	<b>Machine Learning Project</b> Python <ul style="list-style-type: none"> <li>▪ Experimental Project for binary classification on youtube comments</li> <li>▪ Experimentation on optimizations with SVM, Random Forests &amp; Naïve Bayes</li> <li>▪ Experimental Project for classifying news articles based on subject, using SVM, Random Forests and Naïve Bayes</li> </ul>
03/2020	<b>Data Mining Project</b> Python Data Mining Project on a BnB dataset to extract information about prices, neighborhoods and other relevant data
01/2020	<b>Card Game</b> C++ A simplified version of the Legend of The Five Rings game without graphics

## Publications

### Convolutional Neural Networks and their Application in Cancer Diagnosis based on RNA-Sequencing:

BSc thesis in Deep Learning for diagnosing and classifying cancer types, using RNA-sequencing data, converted into 2D images

<https://pergamos.lib.uoa.gr/uoa/dl/frontend/en/browse/2976042#contents>

## Computer Skills

**Programming Languages:** C, C++, Python, Java, Bash, C#, R, Assembly

**Development Tools and Environments:** Git, TensorFlow, Keras, PyTorch, Android Studio, Visual Studio, JetBrains Tools, Vim

**DevOps Tools:** Docker, Kubernetes

**Operating Systems:** Linux, Windows

**Web development:** HTML, CSS, Javascript, Spring Boot, PHP

**DBMS:** MySQL, PostgreSQL, PostGIS

**EO tools:** QGIS, GDAL

**General:** Microsoft Office™ tools

**Design:** Adobe Photoshop, Illustrator, Adobe Premier

**Reporting:** Power BI, Tableau

## Languages

### English:

11/2011 Certificate of Proficiency in English Michigan (ECPE), Grade: B

05/2010 Lower Certificate in English (LCE) Cambridge, Grade: A

### Italian:

Very fluent, no certification, but living in Italy since August 2022

### French:

12/2012 Sorbonne C1, Grade: Très Bien

05/2012 Sorbonne B2, Grade: Bien

05/2010 DELF B1, Grade: 61/100

05/2009 DELF A2, Grade: 72/100

05/2008 DELF A1, Grade: 90/100

## Personal Details

Nationality: Greek

Interests: Shooting, Painting, Travelling, Gaming

**References** – Available upon request