

Personal Statement

Enthusiastic Software Engineer interested in the Space Sector. Enjoys writing code and solving complex problems. Currently working as a Copernicus Service Software Engineer for Starion Group, in Frascati, Italy.

Employment History

09/2022-Present Copernicus Service Software Engineer

Starion Group (former Rhea Group), Italy



- Supporting the implementation and maintenance of complex, design critical applications
- Verifying and validating SW applications
- Designing and implementing supporting tools and libraries
- Supporting and designing IVV activities and carrying out investigations in case of operational problems and open anomalies
- Developing applications
- Participating in bidding process

05/2024-Present Software Engineer for a Web Application

Starion Group (former Rhea Group), Italy



- Maintaining and enhancing a Spring Boot web application by adding new features, fixing bugs and improving functionality
- Managing application configurations and environment-specific properties for various deployment environments
- Following Agile methodologies, including participating in sprint planning and daily stand-ups

05/2023-05/2024 Software Engineer for a Digital Twin Prototype

Starion Group (former Rhea Group), Italy



- Designing, testing and developing software
- Modelling, building, and testing AI software
- Collecting and pre-processing data
- Analyzing data and statistics
- Participating in bidding process

06-08/2017

Summer Intern

Athens Water Supply and Sewerage Company S.A.

Division for Public Sector & Large Clients

Academic Qualifications

2014 – 2022



HELLENIC REPUBLIC
National and Kapodistrian
University of Athens

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 **Algorithm Project** Python
This project consists of 3 parts:
 - a bottleneck autoencoder for image compression
 - heuristic or approximate search for KNN images using Manhattan Distance
 - heuristic search of the 10 NN images using Earth Mover's Distance
- 10/2020 **Autoencoder** Python, Tensorflow, Keras
This project trains an autoencoder model to encode and reconstruct images
- 03/2020-06/2020 **Disease Monitor** C/C++, bash script
Q/A application that monitors diseases, stores patient records and executes commands regarding disease statistics. Includes:
 - Version 1: Hand-written data structures (Linked List, Hash Table, AVL Tree, Max Heap, Priority Queue)
 - Version 2: Child processes using forks to divide the records and the commands
 - Version 3: A multi-threaded server and a client
- 04-05/2020 **Machine Learning Project** Python
 - Experimental Project for binary classification on youtube comments
 - Experimentation on optimizations with SVM, Random Forests & Naïve Bayes

- Experimental Project for classifying news articles based on subject, using SVM, Random Forests and Naïve Bayes

03/2020 **Data Mining Project** Python
Data Mining Project on a BnB dataset to extract information about prices, neighborhoods and other relevant data

01/2020 **Card Game** 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#, Ruby, Matlab, 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

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