

DRIVA ELENI

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OBJECTIVE | The opportunity to learn new skills and work with new technologies in the field I chose to study. Keep evolving and succeed within a challenging environment.

EDUCATION | Graduate of Athens University of Economics and Business Department of Informatics with specialization:

- Database and Knowledge Management
- Computer Systems and Networks

Average Degree Grade: 7.31

General Certificate of Secondary Education (Cholargos, Athens)
Average grade of 19 - Excellent

WORK EXPERIENCE | 10/2016 - 10/2018:
Store Supervisor at the PetCity branch of Cholargos

- ACADEMIC PROJECTS**
- **Implementation of the game Reversi (Othello) using MiniMax algorithm and heuristic evaluation with Alpha-Beta pruning (Human vs. AI)**
A Game Tree of possible moves is created depending on user's selection of depth. Different combination of heuristic methods is used determined by the stage of the game. The AI evaluates and chooses the best choice to make.
Course: Artificial Intelligence
Programming Language: Java
Environment: Eclipse IDE for Java Developer
 - **Email tracking application for spam and ham messages - Message classification implemented with Naïve Bayes**
Enron-Spam and Ling-Spam datasets are used to train and assess our classifier. The program automatically produces a .txt file containing ham accuracy, spam accuracy, Precision, Recall and F1 metrics. Easily adjustable to split the initial Dataset into different combinations of Train-data and Test-data.
Course: Artificial Intelligence
Programming Language: Java
Environment: Eclipse IDE for Java Developer
 - **Reading, saving and manipulating .ppm formatted images and adding filters to them**
The user can enter filters and the filename of the image to be edited. Only .ppm formatted images are identified and read to return a pointer to a newly

allocated float array containing the image data. A new image with the correct filters applied is generated.

[Course](#): Computer Programming in C++

[Programming Language](#): C++

[Environment](#): Microsoft Visual Studio 2017

- **Bus Tracking System in a Distributed Environment using Publisher-Subscriber-Broker design system**

Clients asking for a bus's location of a specific route are assigned to the correct Broker. Each Broker is assigned a list of routes using SHA-1 cryptographic hash function. The Publisher is responsible to create a series of lists by combining information contained in .txt files that have to do with the bus names, bus lines, bus routes and timestamps, as well as giving the correct information to the Brokers. The application supports multiple Subscribers using threads and the choice to use a specified number of Brokers and Publishers.

[Course](#): Distributed Systems

[Programming Language](#): Java

[Environment](#): Eclipse IDE for Java Developer, NetBeans, Android Studio

- **Implementation of a RISC pipelined CPU for FPGAs**

Behavioral and Structural implementation of the electronic units needed to build the final unit, such as 16-bit ALU, hazard unit, instruction fetching register, memory and write back register

[Course](#): Computer Architecture

[Programming Language](#): VHDL

[Environment](#): Altera Quartus II

- **Retrieval of the k-closest documents using Elasticsearch and evaluation of the information retrieval system used**

The large given collection of documents was parsed in XML, converted and written in a .json formatted collection. Elasticsearch and Kibana were set up and used to upload the collection and index it by using the correct analyzer and weighting scheme. A list of queries was put into the engine to generate results. The results were formulated from .json to trec_eval format in order to evaluate the information retrieval system.

[Course](#): Information Retrieval Systems

[Programming Language](#): Java

[Tools](#): Eclipse IDE for Java Developer, Kibana, Elasticsearch, trec_eval

- **Study on Mutation Testing as a Software Testing Method**

Introduction to the software development life cycle and the importance of Software Verification and Validation. Analysis of Mutation Testing - history, types of mutation, advantages and disadvantages, improvements and testing tools.

[Course](#): Software Verification, Validation and Maintenance

- **Overview of the new Video Encoder AV1**

Purpose, technology and technical innovation, comparison with other video encoders and adoption from other companies.

[Course](#): Multimedia Technology

OTHER PROJECTS

- **Creation and Maintenance of Website**
AristesCats Maine Coon Cattery – www.aristescats.gr
Programming Language: HTML, CSS, JavaScript
CMS: Joomla
- **Web Scraping written in Python**
Extraction of all e-shop products along with prices into a .xlsx file using BeautifulSoup and other tools.
Programming Language: Python
Environment: PyDev
- **Simple scraping script that sends an automatic Email Notification**
Easily configurable for any number of Amazon URLs to be scraped. Email notification is sent automatically using SMTP once the price has dropped or dropped below a certain threshold.
Programming Language: Python
Environment: PyDev

SOFTWARE DEVELOPMENT SKILLS

- **Programming Languages:** Java, C++, Python, C, HTML/CSS, JavaScript, SQL, VHDL, VB.net, Assembly
- **Frameworks:** Spring
- **Programming Environments:** Eclipse, NetBeans, Android Platform, Microsoft Visual Studio, Visual Studio Code, Altera Quartus II
- **Databases:** MS SQL-Server
- **Operating Systems:** Windows, Linux
- **Requirement Analysis:** XML
- **Search Engines and Other Tools:** Elasticsearch, Kibana, trec_eval, sablecc, Wireshark, UML

FOREIGN LANGUAGES

- English (C2)
- German (B1)

INTERESTS

Learning foreign languages, travelling, cooking, physics, creating logos and business cards using Adobe Photoshop