Andreas Loizou

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Personal Statement

I am a dedicated, organized, and methodical individual. Moreover, I have good interpersonal skills, am an excellent team worker, and am keen and very willing to learn and develop new skills. I am a holder of a BSc in Computer Science and an MSc in Artificial Intelligence and Adaptive Systems. As a PhD student at the National Technical University of Athens, my focus is to develop an innovative solution to tackle the data quality issue on complex data analytics tasks.

Education

National Technical University of Athens
PhD (October 2023 - Now)
- Marie Curie Fellowship with Relax Doctoral Network
- Developing a system that includes algorithms and tools, for receiving multi-input data in varied formats and executing through an analytic workflow, to produce complex models.
- Supervisor: Associate Professor Dimitrios Tsoumakos

University of Sussex
MSc Artificial Intelligence and Adaptive Systems (September 2021 - September 2022)
- Final Mark 68/100 - Merit class (US GPA: 3.7/4)
- Machine Learning
- Advance Natural Language Processing
- Image Processing
- MSc Individual Master Project:
  - Ethical Facial Emotion Recognition using Continues Learning.

University Of Cyprus
BSc Computer Science (January 2017 – May 2021)
- Final Mark: 6.83/10 - Very Good (US GPA: 3/4)
- Data Structure and Algorithms
- Professional Practice in Software Engineering: **GitHub link**
  - Build professional software for a company with a group.
  - **Group Leader:** Responsible for software design, organizing with the customer and describing to the group the needs of the customer and what must be implemented.
- Digital Image Analysis
- Diploma Project:
  - Building a 3D Pose Estimation for ARM devices using the MotioNet algorithm.

Apostolos Varnavas Lyceum
Lyceum certificate (2013 – 2015)
- Final Mark: 17.78/20
- Core modules: Physics, Advance Math, Informatics, Physical Education, Greek Language

Skills

Software
- Python (PyTorch, TensorFlow)
- MATLAB
- C and C++
- JAVA
- Unity
- Git
- HTML5, CSS3
- JavaScript
- Node JS
- PHP
- SQL
- Unix/Linux (HPC)
- Docker

Soft
- Problem solver
- Interpersonal Skills
- Hard working
- Team Working
- Ethical Working
- Project planning
- Research

Languages
- English (Full Professional Proficiency)
- Greek (Native)

Work Experience

ICCS - Athens, Greece
Knowledge and Database Systems Laboratory
Research Associate (March 2024 – Now)
- Design a framework for data quality monitoring and improving for multi-input datasets for complex analytics tasks – Relax DN project

CYENS (former RISE) - Nicosia, Cyprus
Deep Camera MRG
Research Associate and Computer Vision engineer (October 2022 – November 2023)
- Design and evaluation of algorithms with the use of deep learning and computer vision techniques for the detection of fire and smoke in the wild from a drone camera.
- Construct pipelines and convert the model into TensorRT and deploy them to an embedding device to reduce the latency.
- Construct a message server with RabbitMQ where the detection is transferring using AMPQ topic protocol.
- Deep learning algorithm optimization to reduce time complexity and enhance accuracy.
- Prepare documentation and directly report to the group leader.
- Responsible for data collection and custom labelling and analysis for various research experiments.

Computer Animation & Social Agents (CASA) 2023 - Limassol, Cyprus
Sub reviewer (March 2023)
- Peer reviewing the submitted paper if can be accepted for a conference and noted the issues and the disadvantages of each paper.

CYENS (former RISE) - Nicosia, Cyprus
Deep Camera MRG
All year-round Internship (June 2021 - September 2021)
- Designed a User Interface for Image Evaluation tool with HDR images. The challenges were to render the images using GPU framebuffers and can be display into the User Interface.
- Created a wrapper to command functions of the monitor API which is written in C++ with Python and can be changed by the User Interface.
- Developed research and programming skills. Learn Computer Vision techniques with HDR images.
- Create a server using Flask to communicate the admin panel and the User panel and the experiment results are saved into an SQLite database.
- Coordinated the project and making sure any problems are solved as they arise.

Brainstorm Enterprises Ltd- Larnaka, Cyprus
IT Department
Internship (June 2019 - August 2019)
- Developed sections of the website using HTML and CSS. Designed and manufactured the network of the branches. Handled information of database and retrieved data from the database for the other departments.

Position of Responsibility

Professional Practice in Software Engineering
Group Leader (January 2020 - May 2020)
- Been the group leader build communication between the other groups members and the customer. Develop Time and responsibility management to have ready parts of the software up to date without any Issue.

Interested

- Olympic Weightlifting athlete.
- Cypriot and Greek traditional dancing.

Other Information

- Sport Scholarship Tier 3 athlete from University of Sussex (September 2021)
- Served in the National Guard of Cyprus (June 2016 – January 2017)

References provided upon request.