

# LOUCAS PAPALAZAROU

[loukas.papalazarou.cy@gmail.com](mailto:loukas.papalazarou.cy@gmail.com) | +35796888185 | [loukas.papalazarou.dev](https://loukas.papalazarou.dev) | [LinkedIn](#) | [GitHub](#)

## EDUCATION

- The University of Edinburgh** - Data Science MSc Sept 2023 – Sept 2024
- Courses: Data-driven Business and Behavior Analytics, Machine Learning Practical, Advanced Database Systems, Reinforcement Learning, Text Technologies for Data Science, Natural Computing
- University of Cyprus** - Computer Science BSc Sept 2019 – June 2023
- GPA: 8.32/10
  - Courses: Object Oriented Programming, Databases, Algorithms and Data Structures, Operating Systems, Software Engineering, Machine Learning, Artificial Intelligence, Data Center Engineering, Algorithmic Complexity, Parallel Processing

## EXPERIENCE

- Analgea** - Co-Founder/Software Developer Nov 2021 – Present
- Co-Founded Analgea, a medical startup aimed at providing a platform to connect cancer patients with their health practitioners.
  - Currently developing the backend of the platform. An experience that showcases how passionate I am about technology and delivering a product to people that could really benefit from.
- Algolysis Ltd** - Software Engineering Intern June 2023 – July 2023
- Developed a mobile application leveraging existing ML models for real-time object recognition using Flutter and MLFlow.
  - Designed and prototyped a real-time collaborative image labeling tool. Integrated Meta's Segment-Anything Model with a Flask API.
- UpWork** - Freelancer Jan 2023 – May 2023
- Completed numerous data-extraction projects using Python, Bs4 and Selenium.
  - Communicated with customers to extract business requirements and implemented the requested systems.
- CognitiveUX** - Software Engineer Aug 2022 – Dec 2022
- Designed and developed a biometric wallet mobile application as an extension of the TrustID project, using React Native and extended its Django based backend infrastructure. An experience that taught me the importance of staying well organized.
- PwC Cyprus** - Intern July 2022 – Aug 2022
- Participated in client meetings and gained insights on the inner workings of industry grade software design.
  - Utilized data and automation scripts to create visualizations that helped optimize internal processes.
- KOIOS Research Center** - Software Engineer Dec 2020 – Oct 2021
- Developed a data collection script using Python and Bs4 that periodically extracted and locally stored data from published articles, decreasing the task's completion time by 90%.

## PROJECTS

- Thesis:** ['Implementation and Experimental Evaluation of a Byzantine-Tolerant Distributed Ledger System'](#) – Golang, ZMQ
- My thesis included the design and implementation of a distributed ledger written in Golang and the utilization of the ZeroMQ messaging library. The ledger is Byzantine Fault Tolerant. The client-side CLI allows users to Get and Add records. Grade: 10/10.
- Search Engine** – Python, Google Cloud Platform, Web Spider, ReactJS, SQL, Scrapy
- As part of the Text Technologies for Data Science course, my group is developing a search engine using the Agile methodology. The search engine contains state-of-the-art concepts such as TFIDF, Query Expansion, Phrase/Proximity Search and Page Rank. It is periodically updated with new records using Scrapy web spiders and the entire infrastructure is hosted on the Google Cloud Platform.
- Backend REST API (Analgea)** – Python, Django, Docker, PostgreSQL
- The platform we are developing in Analgea is called Reliefant. Currently developing and managing the backend and infrastructure of the project. Using the Django Rest Framework in combination with the Djoser library to create a REST API that supports modern authentication using JWTs. The backend will be hosted on GCP using Docker.
- Machine Learning** – Python, Golang
- Implemented ML models from scratch as part of the Machine Learning course in my BSc degree. Used Python to create a Multi-Layer-Perceptron and an RBF network from scratch. Used Golang to create a Kohonen Self-Organizing-Map.
- Commercial Data Extraction Software** – Python, Requests, BeautifulSoup, Tkinter
- Co-Designed and developed software for data extraction from commercial websites. Pitched and sold to Alpan Electroline Ltd, boosting their data extraction efficiency by 98% whilst developing teamwork and communication skills.

## SKILLS

- Spoken Languages:** Greek (native), English (IELTS: 8.0 overall)
- Languages & Technologies:** Python, Golang, Git, GitHub, Docker, Bash, Linux, C, Django, Ansible, Pandas, NumPy, SQL, SQL Server, MySQL, PostgreSQL, Java, Junit, Spring Framework, HTML/CSS, React, Firebase, REST APIs, Linux System Administration, DevOps, Kubernetes, PyTorch, TensorFlow, GPU Programming, Cuda

## PERSONAL DEVELOPMENT

- Google Cloud Courses:** Google Cloud Fundamentals Core Infrastructure, LLMs, Generative AI, Encoder-Decoder Architecture, Create Image Captioning Models, Image Generation, Transformer Models and BERT Model, Attention Mechanism
- Judo Blackbelt:** 1st Dan, 2017
- Army Service:** Served 14 months in the Cyprus National Guard Infantry Division, achieving the rank of Corporal. Gained valuable skills such as teamwork, cooperation, discipline, oral communication, multi-tasking, and leadership.