SISSY THEMELI

Senior Software Engineer with experience both in research and industry. Sissy worked as a researcher at NCSR-D in the areas of Deep Learning and e-infrastructures as well as in the industry building backend systems, content moderation platform, dialog management systems etc. She holds a M.Sc. in Data Science from UoA and a B.Sc. in Management Science and Technology from AUEB.

CONTACT

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SKILLS

Programming Languages
Python ●●●●●
Java ●●●●○
Bash ●●●○○
Go ●●●○○
R ●●●○○

Frameworks & Libraries
FastAPI, Django, Flask ●●●●●
Celery, Pika, sklearn ●●●●●
PyTorch, Transformers ●●●●●
Pandas, NumPy ●●●●●
Spring ●●●●○

MLOps / DevOps
Airflow ●●●●●
Kubeflow ●●●○○
Docker ●●●●●
Kubernetes ●●●●●

DBs/Search Engines
Relational DBs ●●●●○
MongoDB ●●●●○
Redis ●●●○○
Elasticsearch ●●●○○

VCS, CI/CD & PM Tools
Git ●●●●●
GitHub Actions ●●●●●
GitLab CI/CD ●●●●●
JIRA/Click up ●●●●●

Operating Systems
Linux ●●●●●
Windows ●●●●○

Other
LaTeX ●●●●●
MS/Libre Office ●●●●●

⚙ WORK HISTORY

Software Engineer

📅 June 2022-today
📍 Unitary AI

Senior Software Engineer | Team Leader

📅 April 2021 - May 2022
📍 Linked Business S.A.
- Intelligent Data Matching Team Leader on various ML and Data Mining projects (e.g. company name matching)
- Agile management (OKRs, sprints etc)
- Redesign and implementation of the core company services to follow the Microservices Architecture
- Tech stack: RESTful APIs (FastAPI, Django), RabbitMQ, async tasks (celery, django-q), python and ML libraries, Docker, Kubernetes, Airflow, GitLab CI/CD, AWS, MongoDB, MySQL

Software & ML Engineer

📅 September 2019 - September 2021
📍 NCSR Demokritos (SKEL, IIT), Athens
- E-science platform providing workflows-as-a-service using Django and Flask frameworks, enabling domain developers (seismologists, physicists etc) to execute their experiments by hiding infrastructure complexities.
- Implementation of an Argument Mining system using BERT-based models.
- *Technologies used*: Huggingface transformers, PyTorch, flairNLP, Django, Flask, FastAPI, Kubernetes, Docker, Elasticsearch, etc.

Software Engineer

📅 August 2018 - August 2019
📍 VoiceWeb S.A., Athens
- Redesign and implementation of the company products to follow the microservices architecture paradigm using Spring Boot
- Product's data layer improvements, creation of a Rule Engine (MongoDB) in the backend instead of reading the rules from XML files
- Implementation of a novel RESTful API for the Dialog Manager
- Redesign and implementation of a new UI for the NLI (Analytics) platform

Software Engineer

📅 May 2016 - July 2018
📍 G.N.T. Information Systems S.A., Athens
Software development on multiple projects using Java EE/Spring frameworks for backend services(EJB3,Spring Framework, Hibernate, RESTful and SOAP web services), with test-driven approach (JUnit and integration tests). Participation in UI projects written with Vaadin and Android frameworks.

🎓 EDUCATION

M.Sc. in Computer Science

📅 October 2016 - October 2018
📍 Dep. of Informatics, UoA, Athens
Thesis: Hate Speech Detection using different text representations

B.Sc. in Management Science & Technology

📅 October 2008 - December 2013
📍 AUEB, Athens

NOTABLE PROJECTS

- 🏆 Argument Mining system on Greek news articles
- 🏆 Development of an e-science platform on the cloud
- 🏆 Hate Speech detection application on online user comments, e.g. tweets
- 🏆 Python project on big geospatial data (feature transformation, learning and clustering)

SEMINAR - CONFERENCES

- Artificial Intelligence for Multilanguage Services for Citizens and Businesses, ELRC workshop (virtual event, 15/12/2020)
- Using text data to improve causal analyses of electronic health records (speaker: Dr. Aaron Kaufman, place: NCSR Demokritos, date: 7/11/2019)
- 1st Athens NLP Summer School (place: NCSR Demokritos, dates: 18-25/09/2019)
- 20th International Conference on Computational Linguistics and Intelligent Text Processing (CICLing2019, place: LaRochelle France, dates: 7-13/04/2019)
- Object-Centric Machine Learning (speaker: Leonidas Guibas, place: Department of Informatics and Telecommunications, date: 5/5/2017)

PUBLICATIONS

Dare platform: a developer-friendly and self-optimising workflows-as-a-service framework for e-science on the cloud

👥 Iraklis A. Klampanos, **Chrysoula Themeli**, Alessandro Spinuso, Rosa Filgueira, MalcolmAtkinson, André Gemünd, and Vangelis Karkaletsis

📅 📖 Journal of Open Source Software 🔗 joss
2020

A study of text representations for Hate Speech Detection

👥 **Chrysoula Themeli**, George Giannakopoulos, Nikiforos Pittaras

📅 📖 CICLing 🔗 arXiv
2019