

# 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, 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 ●●●●●  
R ●●●●●  
Bash ●●●●●

### Frameworks & Libraries

Django/Flask/FastAPI ●●●●●  
Spring ●●●●●  
PyTorch/Tensorflow ●●●●●  
Scikit-Learn/SpaCy ●●●●●  
FlairNLP/Transformers ●●●●●  
Pandas/NumPy/Scipy ●●●●●

### 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

### Senior Software Engineer | Team Leader

- 📅 April 2021-today  
📍 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, Malcolm Atkinson, 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

## LANGUAGES

**Greek** (Mother Tongue)

**English** (IELTS, 2010)

**French** (SORBONNE II, 2006)

## CERTIFICATES

- Machine Learning Engineering for Production (MLOps) specialization, Coursera, October 2021
- Practical Data Science specialization, Coursera, August 2021
- Natural Language Processing specialization, Coursera, October 2020