SISSY THEMELI

Accomplished Software Engineer with over 7 years of expertise specializing in the development of backend systems and APIs. Currently working as a Software Engineer at Unitary Ltd, leading the redesign and implementation of the product's backend to operate at scale with resilience and robustness. Always eager to embrace emerging technologies and enhance my skill set, I work best remotely and I thrive in environments that champion diversity, foster personal growth, and welcome innovative ideas.

CONTACT

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SKILLS

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

Frameworks & Libraries
- FastAPI, Django, Flask ●●●●●
- Celery, Pika ●●●●●
- ML Libraries ●●●●○
- Spring ●●●●○

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

DBs/Message Brokers
- Relational DBs ●●●●○
- MongoDB ●●●●○
- ElasticSearch ●●●●○
- Redis ●●●○○
- RabbitMQ, SQS/SNS ●●●●●

VCS, CI/CD
- Git ●●●●●
- GitLab CI/CD ●●●●●
- GitHub Actions ●●●●○

Operating Systems
- Linux ●●●●●
- Mac ●●●●○
- Windows ●●●●○

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

⚙ WORK HISTORY

Senior Software Engineer

📅 June 2022 - today
📍 Unitary, London

- Spearheaded the comprehensive redesign and implementation of Unitary's product architecture, elevating its robustness, reliability, and scalability. This initiative involved collaborating in a cross-functional team and implementing cutting-edge technologies to fortify the system's foundation.
- Enhanced unit and integration tests of the codebase, ensuring a rigorous and resilient testing framework, which not only ensured the reliability of our testing processes but also empowered the seamless release of multiple production updates per day, marking a significant stride toward agile and dependable software delivery.
- Designed, planned, and implemented of various product features, role that involved collaborating with stakeholders to understand requirements, conceptualise solutions, and bring innovative functionalities to fruition.

Senior Software Engineer | Tech Lead

📅 April 2021 - May 2022
📍 Linked Business, Athens

- Implemented diverse text mining initiatives, extracting crucial information from official state documents to enhance our understanding of companies.
- Led the end-to-end design, planning, and implementation of the KYC Report, a pivotal company product. This involved orchestrating backend microservices and establishing robust pipelines (e.g., CI/CD) to streamline development workflows.
- Collaborated closely with ML engineers to revamp the company name matching project, driving significant improvements in algorithmic performance. This collaboration showcased an interdisciplinary approach to optimizing and refining critical components of our technology stack.
- Implemented a transformative overhaul of the company's product infrastructure, introducing microservices, containerization, and deploying them seamlessly on Kubernetes. This initiative not only enhanced scalability but also contributed to a more agile and efficient development environment.

Software & ML Engineer

📅 September 2019 - September 2021
📍 NCSR Demokritos, Athens

- **DARE Project:** Developed an intermediary platform bridging user applications and underlying computing resources. Leveraging Container Orchestration technologies like Kubernetes and MPI parallel processing frameworks, I orchestrated a sophisticated system offering Workflows-as-a-service. The Microservices Architecture was employed, with all components meticulously crafted in Python using Django and Flask frameworks.
- **DebateLab:** Led the development of an advanced Argument Mining system tailored for Greek news articles. Utilizing prominent ML Python libraries such as flairNLP, Hugging Face Transformers, and PyTorch, the system demonstrated a nuanced understanding of linguistic structures to extract meaningful insights.
- **FAIR4Fusion:** Played a pivotal role in a research initiative aimed at democratizing European-funded data for the fusion community. Instrumental in developing a Demonstrator for this project, I employed the Django Framework, seamlessly integrating with the DARE platform in the backend for robust data analytics.

⚙ WORK HISTORY (CONT.)

Software Engineer

📅 August 2018 - August 2019
📍 VoiceWeb, Athens
- **Voice Application Development:** Architected and implemented a range of voice applications for our clients, leveraging the core product, the Dialog Manager.
- **Product Enhancement and Innovation:** Drove the implementation of multiple features and enhancements across the core company's products.
- **Dialog Manager Redesign:** Led the comprehensive redesign and implementation of a new version of the Dialog Manager, transitioning from a monolithic application to a modularized microservices architecture.
- **Rule Engine Implementation:** Revolutionized the outdated dialog rules parsing system from XML files by introducing a robust Rule Engine. Leveraging MongoDB and the Spring Framework, this overhaul significantly improved efficiency, maintenance, and adaptability in managing dialog rules.

Software Engineer

📅 May 2016 - July 2018
📍 GNT Information Systems, Athens
Extensive involvement in software development across multiple projects, primarily utilizing Java EE and Spring frameworks (including EJB3, Spring Framework, RESTful, and SOAP web services). Adhering to a test-driven approach, proficiently implemented comprehensive testing strategies encompassing JUnit and integration tests. Additionally, actively participated in UI projects utilizing Vaadin for web applications and Android frameworks for mobile applications, showcasing versatility and a holistic approach to software development.

🎓 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)

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

📅 📖 Springer Nature Switzerland   🔗 doi
2023