# Bogdan Despotov

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## EXPERIENCE

Cognyte

Bulgaria (remote)

Mar. 2022 - Apr. 2023

Machine Learning Engineer

- Ownership: Responsible for all ML components: bug fixing, performance improvement, troubleshooting.
- **Productionize:** Put to production as microservices ML models developed internally. Stack: Kubernetes, Helm, Flask, BentoML, GCP.
- Research: Create PoCs for prospect client by fine-tuning state of the art ML models: YOLO, Whisper, easyOCR.
- Design: Create high level designs for components that interact with the ML microservices, present to development teams and support their implementation efforts.

CloudSigma

Sofia, Bulgaria (hybrid)

Mar. 2016 - Mar. 2022

Software Engineer

- **Develop:** Worked on a proprietary cloud stack leveraging KVM, QEMU for virtualization. Included a customer facing API serving hunderds of thousands of requests daily. Leveraging a Python tech stack including: Django, Celery, Tastypie, unittest, Flask and more.
- Implementations: Successfully implemented a number of new features including support for Intel SGX, GPUs, VMWare virtualization, SAML authentication. Helped reduce technical debt by refactoring legacy code, improving test coverage and transitioning from Python 2 to Python 3.
- EC projects: Lead the technical involvement of the company in several project within the Horizon 2020 and RISE frameworks. Efforts include software development, documentation and project management.

## **Hostway Corporation**

Sofia, Bulgaria

Server support and administration, NOC monitoring

Nov. 2011 - Jan. 2013

- Administration: Within the product line of fully managed Linux and Windows servers.
- NOC: Monitoring the global company network and servers and fixing issues as they arise.

## EDUCATION

## Sofia University "Kliment Ohridski"

Sofia, Bulgaria

Philosophy; Did not graduate

Sept. 2014 - Sept. 2018

## Projects

#### DITAS

Data-intensive applications Improvement by moving data and compute in cloud

Work package leader

#### COLA

Cloud Orchestration at the Level of Application

Work package leader

### SecureCloud

Secure Big Data Processing in Untrusted Clouds

Part of consortium

• Publication Co-Author: Secure and Scalable Key Value Storage for Managing Big Data in Smart Cities using Intel SGX.

### SecInCore

Secure Dynamic Cloud based on Pan-European Disaster Inventory

Part of consortium

• **Publication Co-Author:** Cloud-based semantic services for pan-European emergency preparation and planning

#### SEO-DWARF

Semantic EO Data Web Alert and Retrieval Framework

Part of consortium

# HOBBY PROJECTS

Logtrucks

Logging trucks and license plates detection in the wild.

- Dataset: Dataset of logs on trucks and Bulgarian license plates.
- Purpose: To detect logging trucks and their license plates in the wild.
- Method: Fine-tuned YOLOv7 and easyOCR on the datasets.

## Bulgarian news comments dataset.

Code

Application to extract comments from a news site and build them into a dataset.

- Dataset: Dataset of 500k comments on a news site in Bulgarian.
- $\circ\,$  Purpose: Fine-tune LLaMa on the dataset mostly for comic effect.

This CV was generated on July 5, 2023