

PERSONAL  
INFORMATION

# Vadym Bartko

## Python Backend Engineer



📍 Kyiv, Ukraine

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📅 **Date of birth** Jun 06 1987 | **Nationality(-ies)** Ukraine

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Telegram

hudvin  
+(380) 99 4334484  
full remote is highly desirable

### COMPUTER SKILLS AND COMPETENCES

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**AWS**

Lambda, SQS, SNS, S3, Textract, RDS, DynamoDB, MemoryDB

**Pdf Processing**

ghostscript, fitz, ghostscript, fitz(mupdf/pymupdf), deep analysis of pdf documents, font related issues, text detection

**AI**

Convolutional Neural Networks, image classification, object detection, image captioning, image segmentation(UNet), homography, keypoints detection, image processing, FaceNet, classification and clusterization methods, ROS, datasets preparation

**AI Tools**

OpenCV, Scikit-learn, Scikit-image, Tensorflow, Pandas, Jupyter Notebook, Keras, Dlib, Pillow

**Languages**

Python, Java

**OS**

Linux (Debian based), Windows

**Cloud and Deployment**

Kubernetes, Docker, nvidia-docker, Helm, AWS, microservices and distributed systems

**Backend**

Python Backend Stack - Flask, Django, DRF, gunicorn, RabbitMQ, Celery, boto3, Tornado, Flasgger, dynaconf, MongoDB, Elasticsearch etc

**Other**

some experience with LIDARs and stereocameras, R&D, basic language processing

### NOTABLE PROJECTS

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[miltech]

radio scanner based on SDR and single board computer (orange pi), reactive jammer (counter drone), hardware and software design

[pdf processing - fintech]

processing and analysis of financial pdf documents, OCR, dealing with pdf format issues, pdf/image compression and optimization, ghoscript based processing, dealing with font related issues  
ghostscript, imagemagic, fitz, flask, AWS Lambda, AWS Textract

Khumbu

image search engine based on AI and computer vision. Performs face recognition, object detection, image classification, metadata extraction, query processing.  
Docker, RabbitMQ, Flask, Mongo, Keras, Tensorflow, Kubernetes, React

Responsibilities	technical research, market research and analysis, prepare pitch deck, interviewing potential customers, talk to investors, implement backend and frontend parts
[bots and image processing]	automatically train customer specific NLP bots, deploy ML apps to cloud
Responsibilities	Kubernetes, Helm, nvidia-docker, Flask, Celery, Airflow implement web api for third-party ML models, build distributed training system, Kubernetes management and deployment, performance optimization
[media assets management software]	face detection and recognition, image tagging, inappropriate content detection
Responsibilities	OpenCV, Keras, Tensorflow, Docker, dlib, pandas, scikit-image implement image classification and nsfw content detection, build dataset for face recognition tasks, test various facerecog approaches, integrate with another services
[autonomous robocar]	control, navigation, route planning and map building for small 4W robot
Responsibilities	OpenCV, ROS, LIDAR, ZED Camera hardware design, test various SLAM algorithms, setup ROS env for wheel robot, experiments with LIDAR and stereocamera
[gene variations classification]	detect pathogenic variations in genes
	pandas, scikit-learn
ITraffic	detect empty parking lots using webcamera
Responsibilities	Opencv, Caffe, digits, Python, Docker, RabbitMQ; AKAZE/ORB/BRISK, homography create datasets, train models, implement API for models, deployment, implement cv tasks
[crawling/scraping]	large scale web crawling and data extraction
	RabbitMQ, MySQL, Python, PhantomJS, RedShift, S3, EC2, ElasticSearch, NLTK
Firefly	web manager for scientific papers
	GridFS, TitanDB, ElasticSearch
Nomad	distributed crawler
	TitanDB, OrientDB, gremlin
Denigma	tools for ageing research project, server administration, knowledge extraction
Responsibilities	CloudStack, Scala, NLTK, OpenNLP, semantic tools research, backend implementation, some DevOps
BigPlanet	offline map with different sources of geo data
	Android 2.x

## WORK EXPERIENCE

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2020 – current time	Zoral, Python Backend Engineer
2018 – 2019	Khumbu, founder
2015 – 2019	Lohika, Machine Learning Engineer
2014 – 2015	freelance(Python Engineer)
2013 – 2014	Codeminders, Java Engineer
2012 – 2013	Researcher, freelance
2011 – 2012	Ciklum, Java/Android Software Engineer, Team Lead
2009 – 2011	P-Product, Java/Android Software Engineer
2008 – 2009	N.S, co-founder
2007-2008	Exadel, Java Engineer

## EDUCATION AND TRAINING

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University Degree	Kharkiv National University of Radio Electronics, 2008 – 2014 BS in Information Technology
Online course	Machine Learning, Coursera
Online course	Introduction to Artificial Intelligence, EdX
Certification	MapR Certified Hadoop Developer, <a href="https://accredible.com/10056013">https://accredible.com/10056013</a>

## OTHER

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Mother tongue(s)	Russian
Other language(s)	English, Ukrainian, Deutsch(beginner)
Hobbies	climbing, hiking, photography, history, art
Personal blog	<a href="https://vadym.bartko.me/">https://vadym.bartko.me/</a>