

PERSONAL INFORMATION



Vadym Bartko

Python Backend Engineer

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

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WFH/full remote is highly desirable

COMPUTER SKILLS AND COMPETENCES

AWS	Lambda, SQS, SNS, S3, Textract
Pdf Processing	ghostscript, fitz
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

[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 Kubernetes, Helm, nvidia-docker, Flask, Celery, Airflow

Responsibilities	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 OpenCV, Keras, Tensorflow, Docker, dlib, pandas, scikit-image
Responsibilities	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 OpenCV, ROS, LIDAR, ZED Camera
Responsibilities	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 Opencv, Caffe, digits, Python, Docker, RabbitMQ; AKAZE/ORB/BRISK, homography
Responsibilities	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 CloudStack, Scala, NLTK, OpenNLP, semantic tools
Responsibilities	research, backend implementation, some DevOps
BigPlanet	offline map with different sources of geo data Android 2.x

WORK EXPERIENCE

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

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, https://accreditable.com/10056013

OTHER

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