

ANDREI KAZIALETSKI

Senior Python / Machine Learning Engineer

Poland | Open to Remote Opportunities across Europe | B2B

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PROFESSIONAL SUMMARY

Senior Python / Machine Learning Engineer with 20+ years of software engineering experience across backend development, machine learning, computer vision, embedded systems, mobile development, and system architecture. Experienced in building production-grade Python services and distributed systems with FastAPI, Redis, Celery, RabbitMQ, Docker, Kubernetes, AWS, and Infrastructure as Code. Hands-on ML experience includes neural network optimization and quantization, image classification, computer vision, pose estimation, 3D reconstruction, and deployment to resource-constrained devices. Strong systems background with the ability to take solutions from architecture and experimentation through production deployment and optimization.

TECHNICAL SKILLS

Python & Backend: Python, FastAPI, REST APIs, Celery, Redis, RabbitMQ

Machine Learning & Computer Vision: TensorFlow Lite Micro, neural networks, image classification, model optimization, model quantization, computer vision, pose estimation, 3D reconstruction

Cloud & DevOps: AWS, S3, RDS, Docker, Kubernetes, Terraform, CI/CD

Architecture & Integrations: Microservices, distributed systems, cloud architecture, API design, Keycloak, Stripe, Twilio, Google Maps

Systems & Embedded: Linux, ARM, ESP32, C/C++, CMake, Yocto, OpenEmbedded, device drivers

Additional: Hadoop, ELK, Swift, SwiftUI, UIKit

PROFESSIONAL EXPERIENCE

Solution Architect / Python Developer | NDA - Freelance | Feb 2025 - Dec 2025 | Remote

- Designed the architecture of a cloud-agnostic workforce management platform.
- Developed production backend services and REST APIs using Python and FastAPI.
- Built asynchronous workflows with Celery and Redis and integrated Keycloak, Stripe, Twilio, and Google Maps.
- Designed deployment and CI/CD infrastructure using Kubernetes, Terraform, and AWS services including S3 and RDS.
- Optimized the deployment strategy, reducing infrastructure costs by approximately 20%.

Technologies: Python, FastAPI, Redis, Celery, Keycloak, Kubernetes, Terraform, AWS, S3, RDS

iOS Engineer | Freelance | Dec 2024 - Feb 2025 | Remote

- Built SwiftUI interfaces and a robust networking layer using Alamofire and Combine.
- Collaborated with designers, backend engineers, and product managers to deliver new features and optimize application performance.
- Delivered an MVP in three months and supported validation with early adopters.

Technologies: Swift, SwiftUI, Combine, Alamofire, Core Image, Fastlane, StoreKit

Senior Software Engineer - Python / ML / Computer Vision | InData Labs | Mar 2020 - Oct 2024

- Designed microservice architecture and container-based production systems using FastAPI, Docker, and AWS.
- Developed scalable distributed data collection and processing pipelines using Python and RabbitMQ.
- Built and quantized neural networks for embedded devices using TensorFlow Lite Micro and ESP32.
- Developed computer vision and iOS solutions using LiDAR and TrueDepth cameras for pose estimation and 3D reconstruction.
- Improved image classification accuracy by 15% and reduced model size by 40% for embedded deployment.

Technologies: Python, FastAPI, RabbitMQ, Docker, AWS, TensorFlow Lite Micro, ESP32, Computer Vision, SwiftUI, UIKit

Senior Software Engineer - Embedded / Computer Vision | Softeq | Feb 2019 - Feb 2020

- Designed and developed functionality for an ARM-based Qualcomm Snapdragon 820 platform for processing and interconnecting audio streams.
- Developed auto-exposure and image-correction algorithms for performance-sensitive embedded systems.

Technologies: C/C++, ARM, Linux, CMake, Yocto, OpenEmbedded, device drivers

Senior Software Engineer | DIGITEUM LLC | Jun 2012 - Feb 2019

- Designed and developed production software across mobile, data, and systems engineering domains.
- Designed and developed a data-analysis system based on Hadoop and the ELK stack and participated in Kaggle competitions.
- Developed Linux kernel components for BeagleBone Black, including device drivers and device-tree configuration.
- Designed custom iOS UI controls and developed a photobook editor for iPad and a photo book creator.

Technologies: Hadoop, ELK, Linux, C/C++, iOS, REST APIs, CMake, Yocto

EDUCATION & PROFESSIONAL DEVELOPMENT

Belarusian State University of Informatics and Radioelectronics (BSUIR) - System Engineering

DeepLearning.AI - Machine Learning / Deep Learning coursework

LANGUAGES

English - B2 | Polish - Upper-Intermediate | Russian - Native