Contact

Palo Alto, CA
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(LinkedIn)

Top Skills

PL/SQL
Microservices
ASP.NET

Languages

English (Full Professional)
Russian (Native or Bilingual)

Certifications

Agentic AI Engineering Course
Creating Multi Task Models With Keras
Machine Learning Data Lifecycle in Production
Machine Learning Engineering for Production (MLOps) Specialization
Introduction to Machine Learning in Production

Publications

A Survey of Stabilizing Generative Adversarial Networks
GANs in Digital Pathology

Gulnara (Gulya) Timokhina

AI Software Engineer | AI Engineer | ML Engineer | Data Scientist
San Francisco Bay Area

Summary

Experienced Software Engineer in software development and applied AI/ML, delivering production-ready solutions that drive measurable impact. Skilled in Python, TensorFlow, PyTorch, Keras, XGBoost, LLMs, and reinforcement learning, with strong expertise in MLOps, cloud platforms (AWS, GCP), and microservices.

Accomplishments include: patented chromatographic peak classifier (95% accuracy), LLM-powered Method Miner that accelerated R&D by 40%, predictive .NET microservice reducing instrument downtime by 25%, and loan approval ML pipeline achieving 92% accuracy. Additional projects span generative AI, recommendation systems, anomaly detection, and fake news classification.

Known for reliability, problem-solving, and translating advanced AI into business value. Passionate about building scalable AI systems, optimizing performance, and advancing mission-driven innovation.

Experience

Tesla
AI Software Engineer
September 2025 - Present (1 month)
Fremont, California, United States

Thermo Fisher Scientific
Staff Software Engineer - Cloud MicroServices and Data Sciences
June 2021 - June 2025 (4 years 1 month)
San Jose, California, United States

- Developed deep learning and gradient boosting models for chromatographic peak filtering, improving accuracy to 95%. Filed a patent for this innovation.
- Built an AI solution using LLMs to identify compounds and gradients for sample prep, improving data search efficiency.
- Designed a multi-output XGBoost model to predict mass spectrometry isotope patterns.

- Created a .NET service for real-time instrument data collection to enable predictive maintenance.
- Contributed to cloud-native ML deployment using Docker, Kubernetes, and AWS services.

Provident Funding Associates L.P.
Senior Software Engineer
February 2002 - May 2021 (19 years 4 months)
San Bruno, California, United States

- Designed a machine learning pipeline for automated loan approval, covering data prep, modeling, deployment, and monitoring.
- Led architecture and implementation of .NET-based lending solutions across the enterprise.
- Managed offshore development teams, setting timelines and overseeing project delivery.
- Engineered end-to-end mortgage lending software solutions to streamline loan processing and ensure regulatory compliance across financial institutions
- Collaborated with legal and financial executives to align business applications with regulatory standards and client requirements, improving cross-departmental efficiency
- Designed and implemented core business logic for calculating APR, payment schedules, and closing costs to ensure accuracy and consistency across all loan types
- Optimized SQL Server performance and data integrity by creating stored procedures, views, functions, and triggers, resulting in faster query execution and improved database security
- Developed RESTful web services to generate compliant borrower documents —such as closing disclosures and loan estimates—enhancing user experience and reducing manual workload
- Built validation services for total loan points and fees to ensure compliance with federal lending limits, reducing regulatory risk
- Implemented a Windows service to automate the creation and secure transmission of borrower documents, decreasing delivery time by 40%
- Delivered a Windows-based packaging system for investor communication using various protocols (e.g., SFTP, HTTP), improving reliability and partner satisfaction
- Created a secure check printing solution integrated with financial systems, reducing operational delays and minimizing manual errors

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Education

San Jose State University

Master of Science - MS, Software Engineering, concentration in Data Science

Novosibirsk State University (NSU)

Bachelor of Science - BS, Applied Mathematics