

Burakhan Şamli

AI Specialist - Forensic Informatics Engineer

I am a Forensic Informatics Engineer with a strong interest in image processing, **computer vision**, and GIS-based **remote sensing**, focused on developing practical and scalable AI-driven solutions. My background includes work on biometric and identity-related systems such as **facial recognition** and image-based identification, as well as **object detection**, **segmentation**, and **tracking** tasks. In parallel with computer vision, I actively work with Transformer-based architectures in both vision and **NLP** domains, aiming to stay aligned with current advances in deep learning. I have experience applying these models to tasks such as image enhancement, representation learning, and text-based analysis, and I continuously explore emerging methods and architectures to strengthen my understanding of modern AI systems.

I have also worked on satellite image analysis and GIS-focused projects, particularly involving **multiplespectral** and **hyperspectral** data for agriculture-oriented applications such as land use and land cover (LULC) analysis. Across my projects, I integrate machine learning models into deployable software systems, working with containerized and **microservice-based** architectures using tools such as **Docker** and **Kubernetes**, and remain motivated to learn, adapt, and contribute to real-world projects where data-driven solutions create measurable impact.

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 Ankara-Osmaniye

 Burakhan Şamli

 github.com/blitzkrieg0000

 <https://blitzkrieg0000.github.io/>

WORK EXPERIENCE

NLP & Transformer Architectures

Hexaops A.Ş.

2025

Teknokent, Kahramanmaraş

- Participated in NLP projects, working on system design and planning with technologies involving translation, chatbots, messaging, and distributed systems; additionally contributed to the training and fine-tuning of large language models, as well as voice cloning, TTS, and STT projects.

Remote Sensing & GIS

DGH Arge Yazılım

2024-2025

ASBÜ Teknokent, Ankara

- Experience in satellite image analysis and GIS-based workflows using multispectral and hyperspectral data.
- Application of remote sensing techniques to agriculture-oriented projects, including Land Use and Land Cover (LULC) analysis.
- Hands-on experience with platforms and tools such as Sentinel, Landsat, Google Earth Engine, ArcGIS Pro, and EU Copernicus datasets.
- Applied knowledge of satellite image preprocessing, analysis, and interpretation for real-world GIS applications.

NLP & Transformer Architectures

DGH Arge Yazılım

2023-2024

ASBÜ Teknokent, Ankara

- Computer Vision Projects
- Practical experience with Transformer-based architectures across both computer vision and natural language processing domains.
- Exposure to text-based analysis, feature representation, and modern deep learning workflows aligned with current advances in Transformer models.

Specialized Research & Advanced Systems

DGH Arge Yazılım

2023 - 2024

Remote Work, Osmaniye

- Remote sensing research for environmental and agricultural use cases.
- Real-time sports performance analysis (motion & posture).
- AI training on Huawei Atlas 800 (NPU acceleration).

AI & Computer Vision

DGH Arge Yazılım

2023

İnönü Teknokent, Malatya

- Experience in developing AI-based image processing and computer vision applications, including OpenCV-based systems, OCR, image segmentation, object detection and tracking, and dataset preparation and labeling.
- Hands-on work with GAN and Transformer-based image enhancement techniques, including super-resolution and representation learning approaches.
- Development and deployment of real-time AI systems, such as quality control solutions, face recognition and identification platforms, and infrastructure inspection projects, including high-voltage transmission line fault detection.
- Deep learning model development primarily using PyTorch, with experience in inference and serving frameworks such as Triton Inference Server and TorchServe.

Software Engineering & Deployment

DGH Arge Yazılım

2022 - 2023

İnönü Teknokent, Malatya

- Web application development using ASP.NET Core/Angular, with a focus on backend-oriented system design.
- Design and implementation of microservice-based architectures for scalable software systems.
- Experience with Docker, Kubernetes, and Proxmox.
- CI/CD pipelines using GitHub Actions, GHCR, ArgoCD, and Ansible.
- Real-time data processing with Kafka, Redis, and RTMP.
- Monitoring with Prometheus and Grafana.

Forensic Informatics Engineering Intern - I

DGH Arge Yazılım

2021-2022

İnönü Teknokent, Malatya

- Participation in AI-based software development and real-time web integration projects.

Forensic Informatics Engineering Intern - II

Telehouse İstanbul - Teknotel

2020

Kozyatağı, Kadıköy/İstanbul

- Web application development and network-IT management were carried out.

AREAS OF EXPERTISE

AI/ML Project Infrastructure Modeling

Machine Learning & Deep Learning

Computer Vision (CV)

Natural Language Processing (NLP)

Distributed Systems & DevOps

Data Science & Statistics

Remote Sensing & Geospatial Analysis

Software Development & System Design

TECHNICAL SKILLS

Docker | Kubernetes | Python

Terraform | ESRI ArcGis-Pro

Github-Workflows | ArgoCD

PyTorch | Transformers

TensorFlow | Scikit-learn | Pandas

Numpy | Matplotlib | Seaborn

Cassandra | PostgreSQL

Confluent Kafka | Rook-Ceph

Milvus | FastAPI | OpenCV

Ray | Git | Rastervision

Mediapipe | gRPC | Protobuf

LangChain | OnnxRuntime

Sockets | Linux | Redis

Prometheus | Grafana | Ansible

PROJECTS

Data Protection By Blockchain

- Software project that aims to make a set of steps for data processing immutable and consistent by using a blockchain structure.

LANGUAGE

English-Turkish

"I continue my work by expressing it in my own language, while adhering to the original language's terminology logic, and I am reaping the benefits of this approach."

EDUCATION

Fırat University

Bachelor of Science in Forensic Informatics Engineering

2017 - 2021 - [Intern 2022]

GNO: 3.73 / 4