

Baha Buyukates

Computer Engineer | Data, Software, IT, Industrial Systems

EU Citizen - No Visa Sponsorship Required - Immediately Available

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Profile

Data-centric Computer Engineer with hands-on experience in AI training, BI dashboards, and industrial data pipelines. I focus on how data is generated, moved, and transformed into decision-ready systems. I aim to build reliable, scalable architectures that connect shop-floor data with business outcomes.

Technical Skills

- **Data Analysis & BI:** Power BI, Excel, SQL, DAX, Star Schema, KPI Reporting (OEE, MTTR, MTTF)
- **Programming:** Python, C, C#, JavaScript, SQL
- **AI & Machine Learning:** PyTorch, TensorFlow, Scikit-learn, OpenCV, CNNs, LLM Training
- **Industry 4.0 & IoT:** PLC, SCADA, OPC UA, MQTT, Edge Devices, IoT Protocols
- **DevOps & Cloud:** AWS, Docker, Kubernetes, Jenkins, CI/CD
- **Enterprise Solutions:** SAP S/4HANA, SAP Fiori

Professional Experience

AI Trainer

Outlier

Oct 2025 – Present

Remote

- Train and evaluate LLMs to improve code generation and reasoning quality.
- Contribute to data annotation, prompt engineering, and QA workflows.

C# .NET Developer Intern

Prestij Bilgi Sistemleri Arge A.S.

Aug 2024 – Sep 2024

Bursa, Turkiye (Hybrid)

- Built HIS modules with .NET and SQL, delivering secure and scalable components.
- Collaborated via Git for code reviews and versioning within remote teams.
- Supported troubleshooting and preventive maintenance to keep systems stable.

IT Intern

Sanofi

Jul 2024

Luleburgaz, Turkiye

- Hands-on in hardware repair, network maintenance, and IT operations.
- Explored SAP S/4HANA and SAP Fiori modules in an ERP context.
- Learned SAP process integration across finance, supply chain, and HR.

IT Intern

Kirklareli State Hospital

Aug 2023 – Sep 2023

Kirklareli, Turkiye

- Provided hardware and networking support, reducing workstation downtime.
- Executed baseline maintenance and troubleshooting for IT operations.

Selected Projects

Smart Factory Digitalization Platform

Python, Scikit-Learn, Pandas, Matplotlib, Jupyter – 8k-row synthetic manufacturing dataset (temperature, line speed, shift, operator experience, machine age). IQR outlier removal + standardization + One-Hot encoding for defect (0/1). Logistic Regression and Random Forest compared via ROC-AUC, classification report, and feature importance. MES-ERP integration feeds plan-fulfillment/delay/scrap KPIs as model features.

Industry 4.0 IoT Predictive Maintenance Platform

Node-RED, MQTT, Postgres, Python, PyTorch, Power BI, Docker – OPC UA simulation -> MQTT -> Python ETL into Postgres star schema. PyTorch LSTM predicts failure likelihood; OEE/MTTR/MTTF dashboards in Power BI. Docker Compose deployment with validation; multilingual web UI for operators.

NeuraVeil - MRI Tumor Classification

PyTorch, TensorFlow, CNNs, OpenCV – EfficientNet/DenseNet/ResNet tuned via transfer learning + Optuna. OpenCV preprocessing, class balancing, L2 regularization, dropout. High-accuracy multi-class tumor classification with REST API integration.

Heart Disease Prediction with ML

Scikit-Learn, Python – Cleaned/encoded/normalized Heart Failure dataset. Compared KNN, Logistic Regression, and Decision Trees. Evaluated accuracy, precision, recall, and F1 to select best model.

Drumveil Ritual - Metal Drum Transcription

PyTorch, Demucs, Audio DSP – Source separation on metal tracks with Demucs; Onsets and Frames for MIDI. Spectrogram-based pipeline tested with Slakh data + real recordings. Prototype validated on short snippets; full-length limited by hardware.

Education

Trakya University

Bachelor of Engineering, Computer Engineering

Edirne, Türkiye

Sep 2021 – Jan 2026

GEN Academy

AI Software Development & Artificial Intelligence

Remote

Sep 2024 – Jun 2025

Certifications

- AWS for DevOps: Continuous Delivery and Automation (AWS)
- Jenkins, Kubernetes, Docker (DevOps)
- Microsoft Azure AI Essentials (Microsoft)
- Apache Spark Essentials (Databricks)
- LLM Foundations & RAG (AI)
- Industrial Automation & IoT (PLC, SCADA, OPC UA, MQTT)

Languages

Turkish (Native) English (B2) German (A2, B2 in progress)