

BARAA RAYED

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PROFESSIONAL SUMMARY

Experienced DevOps/MLOps Engineer proficient in building **CI/CD pipelines**, managing **AWS/Azure** cloud infrastructure, and automating with **Terraform**. Adept at deploying **AI/ML models** using **Docker** and **Kubernetes**, ensuring scalable and reliable workflows for high-performance systems.

TECHNICAL SKILLS

- ✔ **Cloud Platforms:** AWS, Azure
- ✔ **DevOps Tools:** Docker, Kubernetes, Terraform, Git, Route 53, Elasticsearch, Kibana
- ✔ **CI/CD:** GitHub Actions, Jenkins, GitLab, AWS Pipeline
- ✔ **Monitoring:** New Relic, Grafana, ELK Stack
- ✔ **Programming:** Python, Bash, Ruby, PowerShell, C
- ✔ **Frameworks:** TensorFlow, PyTorch, OpenCV, Scikit-Learn
- ✔ **Databases:** MySQL, PostgreSQL, MongoDB, Redis
- ✔ **Web Servers:** Nginx, Apache
- ✔ **Security:** IAM, WAF, VPC, CloudFront
- ✔ **Operating Systems:** Linux (Ubuntu, CentOS, RHEL), Windows

WORK EXPERIENCE

DevOps Engineer

Apr 2023 – Present

MedexSepeti, Istanbul, Türkiye

- Designed and implemented **CI/CD pipelines** using GitHub Actions for seamless zero-downtime deployments.
- Managed and scaled **AWS infrastructure** across **5 accounts**, hosting **17+ EC2 instances** with **Auto Scaling Groups (ASG)** for high availability and fault tolerance, supporting applications with over **6 million visits per month**.
- Enhanced **Nginx** configurations for high-traffic production and staging environments.
- Deployed full-stack applications (**Next.js**, **React**, **Laravel**) with high availability.
- Strengthened security using **AWS WAF**, **IAM**, and **CloudFront**.
- Automated infrastructure with **Terraform** and monitored systems via **New Relic**.
- Deployed **SaaS** applications across multiple regions using AWS services.
- Implemented automated **S3** configuration backups to ensure data integrity and disaster recovery.

Deep Learning Researcher

Jan 2023 – May 2024

Desk, Remote (Germany)

- Developed **object tracking** systems using **YOLOv8** on RGB and thermal feeds.
- Integrated **DeepSORT** for real-time person tracking in surveillance applications.
- Automated the deployment pipeline for **ML models** using CI/CD tools (e.g., GitHub Actions), reducing deployment time by **65%** and improving reproducibility.
- Containerized ML models with Docker for efficient scaling and deployment.
- Automated deployment pipelines with **GitHub Actions** and monitored using **New Relic**.
- Optimized and fine-tuned LLMs on dedicated physical GPU servers for inference and training.

PROJECTS

ML Flask Application

2023

GitHub-Link

- Deployed a Flask-based **ML model** on **AWS EC2** (Amazon Linux) with manual and automated deployment pipelines.

ECG Arrhythmia Classification

2023

GitHub-Link

- Built a classification model to identify 7 types of heart arrhythmias using **ECG spectrograms**.

2D Hippocampus Segmentation

2022 – 2023

GitHub-Link

- Developed an automated **U-Net** segmentation model for hippocampus region detection in MRI scans.

RESEARCH EXPERIENCE

Research Assistant

Sep 2023 – Present

Istanbul University-Cerrahpaa, Türkiye

- Designed scalable **pipelines** for multi-output deep learning tasks in medical imaging.
- Supported infrastructure for **LLM deployment** in a brain visualization platform.

Research Assistant

Sep 2019 – Jun 2023

Tekirda Namk Kemal University, Türkiye

- Developed a **U-Net model** for hippocampus segmentation in MRI data.

EDUCATION

M.Sc. Computational Neuroscience and Biomedical

Sep 2023 – Present

Istanbul University-Cerrahpaa, Istanbul, Türkiye

- Thesis: Leveraging **LLMs** and 3D brain simulations for diagnostic support.
- Awarded Full Academic Scholarship for academic excellence.


B.Sc. Computer & Biomedical Engineering

Sep 2019 – Jun 2023

Tekirda Namk Kemal University, Tekirda, Türkiye

- Graduated First in Class with a **GPA of 3.70/4.00**.

LANGUAGES

 Arabic (Native), English (Fluent), Turkish (Advanced), French (Beginner)