

BERK GÖKTAŞ

Computer Engineer | Cybersecurity & Machine Learning

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PROFESSIONAL SUMMARY

High-honors Computer Engineering graduate from Boğaziçi University specializing in Cybersecurity and Machine Learning. Proven experience in Security Operations (SOC), SIEM rule development, and DevOps CI/CD automation. Actively researching the application of Graph Neural Networks (GNN) and Explainable AI (XAI) to optimize threat detection and reduce SIEM alert fatigue.

WORK EXPERIENCE

Database Student Assistant (CMPE 321)

Istanbul, Turkey

Boğaziçi University

February 2026 - June 2026

- Designed, administered, and graded comprehensive relational database projects (TransferDB) for 54 student groups.
- Conducted live, interactive demonstration sessions to evaluate students' complex backend logic, database triggers, and stored procedures.
- Executed security testing on student web applications by deploying SQL injection payloads to verify proper input sanitization and parameterized query usage.

Cybersecurity & Software Engineering Intern

Istanbul, Turkey

Doğuş Teknoloji

June 2025 - August 2025

- Executed an end-to-end SIEM log reconciliation process, configuring WinCollect agents and securely mapping 200+ multi-tenant log sources into IBM QRadar to guarantee full SOC visibility.
- Engineered custom threat detection rules and updated 300+ security reports in QRadar using AQL and Regex, mapping detection scenarios directly to the MITRE ATT&CK framework.
- Triaged and responded to live security incidents—including phishing, DDoS, and malware—by analyzing Microsoft Defender EDR/XDR telemetry and leveraging Cortex XSOAR playbooks.
- Completed cross-functional engineering rotations: developed containerized Apache Airflow DAGs for data pipelines and built secure Spring Boot/Kotlin microservices utilizing JWT authentication and Redis.

DevOps Intern

Istanbul, Turkey

Hepsiburada

June 2024 - August 2024

- Provisioned and managed production Kubernetes clusters across multiple zones using Terraform, Ansible, and Kubespray; executed node scaling and taint/toleration configurations to optimize resource allocation.
- Automated CI/CD pipelines via GitLab CI and enforced strict Change Management (CMG) protocols with branch protection webhooks, ensuring zero unauthorized production deployments.
- Secured deployment pipelines by integrating HashiCorp Vault for dynamic secret management and actively debugged complex Image Pull Backoff and firewall access incidents.

ACADEMIC RESEARCH & PROJECTS

Reducing Alert Fatigue in Multi-SIEM Environments

Lead Researcher

Boğaziçi University

2025 - 2026

- Developing a hybrid AI architecture utilizing Graph Neural Networks (GNN) and Long Short-Term Memory (LSTM) networks to optimize security alert triage and drastically reduce false positives in Security Operations Centers (SOC).

EDUCATION

Bachelor of Science, Computer Engineering

Istanbul, Turkey

Boğaziçi University

June 2026

- GPA: 3.64 (High Honor)
- Exchange Program: Computer Science, Hong Kong University of Science and Technology

SKILLS

Technical Skills

Python • PyTorch • Deep Learning (GNN, LSTM) • SQL • Linux • Java • C

Languages

Turkish (Native) • English (C2) • German (A2) • Spanish (A1)

Soft Skills

Problem Solving • Fast Learner • Goal-oriented Mindset • Research

Interests

Cybersecurity • Artificial Intelligence • Machine Learning • Database Architecture

CERTIFICATIONS

Cybersecurity: ISC2 Certified in Cybersecurity (CC) • Google Cybersecurity Professional • IBM Cybersecurity Analyst • IBM Ethical Hacking • IBM QRadar SIEM Foundation

Data & Cloud: AWS Data Analytics • UC San Diego Intro to Big Data • Northeastern Univ. Data Privacy

HONORS & AWARDS

Grand Prize Winner – *Kim Milyoner Olmak İster?* (Turkey's "Who Wants To Be a Millionaire"), 2024