Oktay Özel

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Boston, MA

EDUCATION

- **Boston University** — Boston
  MS in Computer Science — *Sep. 2025 - Dec. 2026(Expected)*

- **Bogazici University** — Istanbul
  BSc in Computer Science — *Sep. 2020 – Jan. 2025*
  - **Exchange Program**: Completed a semester at Aalto University, Finland
  - **Teaching Assistant**: Served as TA for CmpE-150 (Intro to Programming)

EXPERIENCE

- **Fugo Games** — Istanbul, Turkey
  Data Scientist — *Sep. 2024 – Sep. 2025*
  - Performed ad hoc analyses, A/B testing, customer segmentation, and predictions for a portfolio of mobile games with **10 million+** daily active users, including **Words of Wonders**; utilized **BigQuery** and **Python** for scalable data processing and insights.
  - Improved ROAS and retention prediction models; transforming manual model training into automated, scheduled retraining workflows using **Airflow**, in line with MLOps best practices. Developed an algorithmic marketing agent for small-scale games, managing **$15.000** daily budget.
  - Built automated customer support system using **RAG** and **LangChain**, reducing support costs by **90%**.
  - Rewrote level generation codes, migrating from Python to **C++** speeding up by 20 times.

- **Beakwise Inc.** — Istanbul, Turkey
  Software Engineering Intern — *June 2024 - Aug. 2024*
  - Built **Rust** backend services for an insurance company, serving **2,000,000** users and containerized deployments with **Docker**; using **PostgreSQL** for database operations and contributed to the frontend in **Vue.js**.

- **Fibabanka, Banking Analytics Department** — Istanbul, Turkey
  Data Science Intern — *Nov 2023 – May 2024*
  - Built a pipeline to process conversations of 300K+ users with the company chatbot using Python. Evaluated chatbot performance using **BERT** and TURNA (achieved 87% accuracy), and extracted conversation topics via **LDA** and clustering to uncover customer insights.

- **DAI Labor der TU Berlin, BeIntelli Project** — Berlin, Germany
  Intern — *July 2023 - Sep. 2023*
  - **Cluster Orchestration**: Orchestrated the autonomous vehicle infrastructure in Berlin, including cameras, sensors, cars, edge computers, etc., using **Kubernetes**. Collected logs via sidecar injectors implemented in **Python**.
  - **Log Anomaly Detection**: Implemented log anomaly detection algorithms to analyze cluster logs, sustain system security and prevent crashes.

- **Nokia, Fixed Networks Department** — Istanbul, Turkey
  Intern — *July 2022 - Sep. 2022*
  - **Data Analysis and Reporting**: Conducted comprehensive data analysis on Nokia's fixed network infrastructure in Turkey, collecting and synthesizing performance data. Generated detailed reports using **Python**, **Perl**, and **Scala**, and gained valuable insights into network concepts and architecture.

PROJECTS AND ACHIEVEMENTS

- **Searchitect**: A full-stack social media web application with interactive features. Worked on the frontend using **React** and the backend with **Django**. Utilized **Docker** for containerization and deployed the application to the cloud. Implemented a semantic search engine leveraging Wikipedia data.

- **National Olympiad in Informatics — Bronze Medalist**: Awarded with a **$10.000** scholarship for this achievement. Later got invited by Scientific and Technological Research Council of Turkey (TUBITAK) training camps to deliver lectures and set problems for National Olympiad in Informatics