

# OGUZ KAAAN IMAMOGLU

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## EDUCATION

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### Technische Universität München

*Master of Science, Informatics*

Oct 2022 – Sep 2025

*Munich, Germany*

- Major Area: Machine Learning and Analytics
- Minor Areas: Engineering Software-Intensive Systems; Databases and Information Systems
- Master Thesis: *Guidewire Tracking in X-ray Fluoroscopy under Sim-to-Real Domain Shift, Chair for Computer Aided Medical Procedures, in collaboration with the German Heart Centre Munich*
  - Designed a simulation-to-real pipeline for guidewire tracking in X-ray fluoroscopy.
  - Generated synthetic PCI sequences by modeling heart motion and guidewire dynamics.
  - Trained and evaluated YOLO-based tracking models using domain adaptation techniques.
  - Achieved strong tracking performance on real clinical X-ray data.
  - Tech stack: PyTorch, SimpleITK, Elastix, DeepDRR, YOLO, OpenCV, MMTracking

### Bilkent University

*Bachelor of Science, Computer Science*

*Cumulative GPA: 3.0 / 4.0*

Sep 2017 – Jun 2022

*Ankara, Turkey*

- Achievements: Awarded Wide Impact Award for the Capstone Project at the Bilkent Project Fair.

## WORK EXPERIENCE

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### Taico.io

*Project Student - Working Student - Full-Stack Software Engineer*

Apr 2024 - Present

*Munich, Germany*

- Designed and implemented Dockerized backend services using Python (Flask) to support scalable media analytics workflows.
- Built React-based dashboards for visualizing cost and performance metrics across multiple media channels.
- Processed and analyzed large-scale datasets using BigQuery, leveraging GCP services such as Cloud Functions and Cloud SQL.
- Contributed to the integration of an OpenAI-powered chatbot for context-aware user data queries.
- Promoted from Working Student to Full-Stack Software Engineer.

### QYOBO

*Working Student*

Jun 2023 - Jan 2024

*Munich, Germany*

- Developed and maintained Python-based web scraping pipelines using Scrapy and BeautifulSoup to collect pharmaceutical and chemical market data.
- Owned the end-to-end data extraction and transformation pipeline, from crawling raw data to structured storage in SQL-based databases.
- Improved data quality and pipeline reliability in collaboration with analytics and product teams.

### Miraclepass

*Founding Engineer*

Jul 2021 – Mar 2022

*Ankara, Turkey*

- Co-founded and engineered a QR-based mobile payment application.

- Developed cross-platform mobile applications using React Native and PHP as part of a team of three.
- Delivered a functional MVP within six months, validating the product concept before discontinuation.

### **Jotform**

Jun – Jul 2021

*Machine Learning Intern*

*Ankara, Turkey*

- Developed a neural machine translation system to translate online forms from 15 languages into English.
- Built the model using an attention-based seq2seq architecture with TensorFlow.
- Presented and validated the system through internal demos and evaluations.

### **Yapı Kredi Technology**

Jul – Sep 2020

*Software Engineer Intern*

*Remote*

- Developed a data visualization system to monitor the runtime behavior of internal microservices.
- Implemented service-level metrics and visual flows using Prometheus and Vizceral.
- Contributed to backend and frontend components using Spring Boot and React.

## **PROJECTS**

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### **Parma AI**

Oct 2023 – Feb 2024

*Practical Course Project — In collaboration with La Famiglia Venture Capital*

- Designed and implemented a web-based analytics platform as part of a group project to track startups of interest, related news, and automated reports.
- Collected startup data from external sources via APIs and built backend services using FastAPI and OpenAI APIs, with data managed on GCP and MongoDB.

### **reporTown**

Jan – May 2022

*Senior Design Project*

- Developed a full-stack mobile application as part of a group project to enable citizens to report urban issues to relevant authorities, using Spring Boot for backend services and a React-based frontend.
- Integrated MongoDB for data storage and Google Cloud Functions for cloud-based processing, and implemented an object detection pipeline using YOLO to analyze reported images.
- Awarded the Wide Impact Award among 40 capstone projects at the Bilkent CSFair 2022.

## **EXTRA-CURRICULAR ACTIVITIES**

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### **Bilkent University Young Entrepreneurs Society**

May 2018 – May 2020

*Board Member / Coordinator of Ankara Startup Summit 2019*

*Ankara, Turkey*

- Led the organization of the 13th Ankara Startup Summit, an early-stage startup competition with over 800 participants including investors and entrepreneurs.
- Coordinated a 50-member organizing team and managed on-site operations during the event.
- Raised over \$15,000 in sponsorships and secured partnerships with technology companies and investors.

## **SKILLS**

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### **Software Development**

Python, Java, JavaScript, SQL, React, FastAPI, Flask, OOP

### **ML & AI**

PyTorch, LLMs, RAG, AI Agents, LangChain, Computer Vision

### **Cloud & DevOps**

Docker, Git, Linux, CI/CD, GCP

### **Languages**

Turkish (*Native*), English (*Fluent*), German (*Elementary*)