

# ALARAZEYBEK

[alarazeybek](#) • [alara.zeybek@ug.bilkent.edu.tr](mailto:alara.zeybek@ug.bilkent.edu.tr) • +90 545 476 5095 • [github/alarazeybek](#) • [linkedin/alarazeybek](#)

## IHSAN DOGRAMACI BILKENT UNIVERSITY

BSE in Computer Science. IELTS: 7.0

## TEVFIK FIKRET HIGH SCHOOL (LYCÉE TEVFIK FIKRET - LabelFrancEducation)

Graduated with high honors and baccalaureate equivalent diploma, %50 scholarship. Dalf B2

Ankara, Turkey

September 2021 - June 2025

Ankara, Turkey

September 2009 - June 2021

## RELEVANT EXPERIENCE & TECHNICAL PROJECTS

### GOOGLE LENS / GOOGLE

#### Step Technology Intern

Worked on the backend migration of Google Lens, with a focus on confidence filters that validate and refine object detection outputs from Lens ML models. Deprecated outdated Python modules responsible for manual filtering, replacing them with a cleaner and more maintainable codebase. Designed and implemented modern C++ filters to manage and improve confidence handling algorithms. Conducted usability testing and contributed to infrastructure upgrades that enhanced system performance and scalability. My contributions remain active in the production environment today.

Zurich, Switzerland

July - October 2023

### DA VINCI AI / JOTFORM

#### Data Science Intern & Support Engineer

Contributed to the **AI Agent project** by developing a conversational Agent Builder prototype with dynamic knowledge acquisition, persona assignment, and real-time messaging. Designed the frontend (HTML/CSS) and implemented backend logic (Flask, Docker) with prompt engineering for contextual responses. Improved reliability and scalability by redesigning error tracing for the image endpoint, fixing critical bugs, and enhancing system maintainability. Built a real-time phone call prototype as a potential alternative to the existing voice system.

Ankara, Turkey

August 2024 - June 2025

### DA VINCI AI / JOTFORM

#### Jotform Software Engineer

Focused on advancing the **Jotform Voice Agent**, enabling seamless real-time conversations between users and AI. Applied extensive **prompt engineering** to design adaptive conversational flows and ensure context-aware responses. Architected multi-agent interactions where multiple agents collaborate through **function calling and message passing**, supporting complex tasks such as knowledge retrieval, persona switching, and dynamic workflow execution. Enhanced the reliability and scalability of the system by refining error tracing and monitoring pipelines, while integrating speech-to-text and text-to-speech components with customizable voice parameters. Also contributed to embedding solutions for smooth deployment across web platforms and ensured interoperability between voice, chat, and form-based interfaces.

Ankara, Turkey

November 2024 - Present

## TECHNICAL PROJECTS

**Plutos Equities:** Graduation project applying **big data, machine learning**, and **NLP** to forecast key financial metrics for top 100 NASDAQ-listed firms. Built a multimodal ML pipeline combining time-series analysis, sentiment scoring from financial texts, and advanced feature engineering. Deployed on **Azure** with a **FastAPI** backend and **React.js** frontend. Relevant link: [Plutos](#)

**Hitchhiking App:** Uber-inspired Android mobile app in **Java (Android Studio)** for intra-campus ride-matching. End-to-end development enhancing mobile design, agile, and UX/UI skills.

**Adaland IT System Enhancement:** The Network within Gunaydinlar A.Ş. was developed; conducted usability tests; enhanced the computer hardware; tested the company software system.

**Hacettepe Lab Scheduler:** A **web** application actively used within the university that organizes labs in the faculty of medicine.

**Bilco:** Web marketplace for secondhand goods. **.NET** backend, **Flutter** responsive, cross-platform frontend, **SignalR** for real-time messaging, **Azure PostgreSQL** database. **OOP** and **UML** applied. Relevant link: [Bilco](#)

**Ticketify:** Web ticket marketplace. **Flutter** frontend, **Flask/Docker** backend. Focus on **SQL** queries and database management.

**Pine:** Functional language with unique features. Used **BNF** for syntax, **Lex** for tokenizing, **Yacc** for parsing.

## SKILLS & CERTIFICATES & VOLUNTEER WORK

**Languages:** Proficient French, Proficient English, Fluent Turkish.

**Programming:** C/C++, Python, Java, React js, HTML, CSS, Dart, SQL, .NET, System Verilog, VHDL, Flask, Git.

**2013-2018** Volleyball License, Republic of Turkey Ministry of Sports General Directorate of Sports

**2018** Kangourou Sans Frontières International Math Competition Finalist

**2019** International Contemporary Art Exhibition ICAS, Turkish American Association Izmir

**2019** Prize of French-Speaking High School Student in Turkey, Lycée Français Pierre Loti d'Istanbul and French Embassy

**2020** GSMUN participation as a delegate, University of Galatasaray

---

**2019** Concordia Green House Project GSM (France): Helped renovate a house's exterior wall over two weeks in Bassusses.

**2022** Gündökgöl Club, Library Project: Assisted in building a library at under-resourced Gokkaya Primary School.

**2021-2023** Organization Coordinator, Bilkent Photography Club: Managed events and training activities for a 491-member club.

**2024-2025** Social Media Coordinator, Bilkent EnDost TDP Club: Organized activities that support children with disabilities.