

# Yigit Kemal Can

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LinkedIn | GitHub

## EDUCATION

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### Bilkent University

*Bachelor of Science in Computer Science, CGPA: 3.92/4.00*

Ankara, Turkey

*Sep. 2021 – Jun. 2026*

### Manisa Science High School

*High School Diploma, Grade: 97.51/100*

Manisa, Turkey

*Sep. 2017 – Jun. 2021*

## RESEARCH

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### Bilkent University

*Undergraduate Researcher*

Ankara, Turkey

*Jul. 2025 – Present*

- Conducting research under the supervision of **Prof. Özgür Ulusoy** in text-to-SQL systems.
- Experimenting with multi-agent text-to-SQL pipeline of the E-SQL (Caferoğlu & Ulusoy, 2024) paper and implementing different methods such as schema filtering, iterative question enrichment, and multi-SQL generation to improve execution accuracy in the BIRD dataset.

### Collaborative Research

*Research Collaborator*

Ankara, Turkey

*Jul. 2025 – Sep. 2025*

- Extended internship reinforcement-learning research with **A.G. Aydın, M.Sc.**, by implementing prioritized experience replay (PER) in an Atari simulation environment.
- Compared PER against custom priority buffer integrated with demonstration learning and hindsight experience replay to assess learning performance.

## EXPERIENCE

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### ASELSAN

*AI Research Intern*

Ankara, Turkey

*Jun. 2025 – Jul. 2025*

- Enriched the experience of reinforcement-learning agents in a marine simulation by integrating multiple strategies as demonstration learning, hindsight experience replay and custom priority buffer guided by comprehensive literature reviews of state-of-the-art methodologies.
- Implemented different data structures and algorithms to increase the run-time efficiency of the training and decrease convergence time.

### Outlier AI

*AI Trainer*

Remote, United States

*Nov. 2024 – Jan. 2025*

- Developed and verified coding problem sets and reference solutions used to fine-tune large language models under the Lemur Project.
- Reviewed AI-generated code responses, identified logical or syntactic errors, and provided structured feedback to enhance model reasoning and accuracy.

### Vestel

*Full Stack Developer Intern*

Izmir, Turkey

*Aug. 2024 – Sep. 2024*

- Developed OneDashboard, a React/AWS web app for Vestel employees to access key inner-company dashboards, collaborating with the in-house design team.
- Implemented frontend pages and integrated Amazon AWS services to store and present operational data; application now **deployed** at Izmir and Manisa sites.

### Phinia Delphi

*Software Engineering Intern*

Izmir, Turkey

*Jul. 2024 – Jul. 2024*

- Built a multithreaded C++ GUI using Dear ImGui library to display remote test-bench data, enabling simultaneous use and hardware connection.
- **Deployed** across Turkey and France factories, improving remote test-bench monitoring workflow.

## PROJECTS

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**BugSmith - Automated Bug Handling System** *Python, TypeScript, LLM Agents* Aug. 2025 – Present

- Developing a multi-agent LLM pipeline that automates the bug handling workflow by generating reproduction steps, executing them in a sandboxed environment, validating results, and suggesting candidate patches under the supervision of **Assoc. Prof. Eray Tüzün**.
- Implementing modular agents for bug report enhancement, and bug reproduction; each component operates independently to enhance maintainability and scalability across large codebases.

**Bilkent Recruitment Office Data Analysis Platform** *Python, JavaScript* Sep. 2024 – Jan. 2025

- Co-developed a React frontend and FastAPI backend to coordinate high-school tours introducing Bilkent University, integrating AWS and real-time features.
- Built the integration between backend and frontend components, and developed pages to display and manage large-scale educational data covering **13,000+** high schools and **222** universities across Turkey.

**InsuChef - Health Application** *Java* Feb. 2023 – Jun. 2023

- Led a team of five to create an Android app that calculates insulin dosages and tracks diets for diabetic patients.
- Web-scraped **10,000+** nutrition information, stored user profiles and nutrition data in a backend database, and recommended healthy meal options to the users.

## SKILLS

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- **Technical Skills**, Python, C++, C, Java, SQL, JavaScript, Node.js, React, FastAPI, MySQL, AWS.

## HONORS AND AWARDS

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- **Turkish University Entrance Exam**, ranked **207th** among 2.5 million candidates in the Math and Science field of Turkey's 2021 national university entrance exam, awarded full scholarship at Bilkent University.
- **Bilkent Recruitment Office Data Analysis Platform**, project selected as **Best Project** out of **37** teams and adopted by the university as an official platform.

## VOLUNTEERING

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**Work&Travel Exchange Program** United States  
*Participant* Jun. 2023 – Sep. 2023

- Took part in the program in order to experience American culture and gain professional skills.

**Veles International Festival** Macedonia  
*Participant* Jun. 2013

- Engaged in cultural exchange with students worldwide through Turkish Republic Erasmus+ Program.

## HOBBIES

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- **Football**, member of the team that crowned Bilkent University 2024 Football Tournament champions.
- **Traditional Dances**, achieved two-time championship in regional competitions in Turkey.
- **Amateur Sailing**, holding a sailing license issued by the Turkish Ministry of Transport and Infrastructure.