Zeynep Sude Turan

Computer Engineering Student

CONTACT

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EDUCATION

Gebze Technical University | 2022–present
Computer Engineering (100% English)

- AGNO: 3.2
- In addition to theoretical computer science knowledge, I have completed numerous programming laboratories and assignments, many of which are listed on my GitHub.

Darıca Science High School | 2018–2022

EXPERIENCE

Deka Technology | Aug 2025
Data & Software Intern

- Gained hands-on experience in SQL database management, data cleaning, indexing, and performance optimization.
- Built data pipelines and performed web scraping to prepare datasets for LLM training.
- Integrated a backend database into a web application using the datasets and SQL infrastructure I developed, designed the database schema, implemented API endpoints, and ensured secure and optimized end-to-end data flow.
- Applied Agile & Scrum methodologies: participated in daily stand-ups, sprint planning/review/retrospectives, and managed issues with Jira (Epics, Stories, Tasks, Bugs).

PROJECTS

- Built a mobile app from scratch for a team project, integrating the team's backend API and database into a modern React Native application. Developed UI components, implemented state management, handled API communication and data flow, and ensured smooth end-to-end functionality across the app. The app enables map-based tree-watering volunteering by allowing users to view tree locations, track watering activity, and engage in community-driven environmental support.
- Developed a retro-inspired, terminal-based clone of the classical spreadsheet VisiCalc — implemented in C++ using modern object-oriented design and polymorphism. Implemented a custom formula parser supporting arithmetic operations and functions (SUM, AVER, MAX, MIN, STDDEV). Designed a lightweight data model with cell addressing, absolute references, and CSV-based persistence. Developed a terminal UI with custom key handling for efficient navigation and editing.

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PROJECTS

- Developed a terminal-based Wordle clone entirely in C, featuring an ANSI-colored user interface and full bilingual support (Turkish & English). Ensured correct rendering and input of Turkish characters by implementing wide-character handling with wchar_t and setlocale, and designed Unicode-aware comparison and validation routines. The project demonstrates low-level string handling, terminal UI design, and localization techniques in a resource-constrained environment.

- Developed and integrated a memory game, "Recall The Matrix," for our group project using three Arduino Uno microcontrollers and an 8x8 Matrix display. Implemented core game mechanics: generating a temporary random number matrix for memorization and taking player input via a remote controller. Contributed to the full project lifecycle, including research, software development, hardware setup, report documentation , debugging, and final testing for various situations.

- Maintained a GitHub project translating the "30 Days of Python" series into Turkish, expanding learning resources and making Python education accessible to Turkish-speaking learners worldwide. Added context-relevant examples and explanations to enhance understanding and usability. Demonstrated skills in Python programming, technical writing, localization, and creating open-source educational content for the community.

- Open Source Contributions (GitHub) – Regularly contribute to open-source projects by improving code quality, optimizing performance, fixing bugs, and enhancing documentation, demonstrating collaboration, technical skill, and community engagement.

SKILLS

Programming and Others

- Functional Programming (C)
- Object Orianted Programming (C++, Java, Python)
- Mobile Development (React Native, TypeScript)
- Database Management (MS SQL)
- Data Handling (Pandas, NumPy, BeautifulSoup)
- API Integration – RESTful API, Axios, Fetch
- Version Control (Git, GitHub)
- CI/CD / DevOps Tools – GitHub Actions, Docker
- Testing (Postman)
- Project Management and Scrum (Jira)

Languages

- English (Upper Intermediate)
- German (Beginner)

Soft Skills

- Continuous Learning
- Teamwork
- Problem Solving

CERTIFICATES

Python Course | 2024
Google DGC GTU

Scrum Course | 2025
BTK Akademi

SQL Course | 2025
BTK Akademi