

Oğulcan Tokmak

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Education

Ege University

Bachelor of Science in Mathematics (Computer Science Track)

Izmir, Türkiye

Expected June 2027

- GPA:** 2.91/4.00 (Upward trend: Last semester 3.28/4.00)
- Relevant Coursework:** Computer Sciences I-III (C), Data Mining Methods, Logic Design I, Low-Code Web & Mobile App Development, Discrete Mathematics, Numerical Analysis, Probability & Statistics, Linear Algebra
- In Progress (Spring 2026):** Network & Internet, Number Theory & Cryptography Algorithms, Computer Sciences IV(Advanced C)

Experience

Private Mathematics Tutor & Mentor

Self-Employed

September 2024 – April 2025

Manisa/Saruhanlı, Türkiye

- Mentored high school students by actively solving math problems together and supporting their daily curriculum.
- Analyzed practice exams to identify knowledge gaps, walking through incorrect answers step-by-step to improve their performance.
- Utilized a digital tablet to draw out proofs and visualize geometry in 2D and 3D, making abstract concepts easier to grasp.

Extracurricular Involvement

Active Member

Mathematics and Technology Community

September 2024 – Present

Izmir, Türkiye

- Participated in an intensive Game Theory program at the prestigious Nesin Mathematics Village, instructed by Prof. Dr. Ali Nesin.
- Applied advanced mathematical logic to strategic decision-making and multi-agent systems during the program.

Active Member & Volunteer

Informatics Association of Turkey (TBD) & Community NGOs

September 2025 – Present

Izmir, Türkiye

- Regularly attend TBD events and technical seminars to follow industry trends and network with software professionals.
- Actively volunteer for the Izmir Mathematics Festival to promote STEM education, while maintaining memberships in civic NGOs including AFAD and LÖSEV.

Projects

NotePadNeo | Kuika, SQL, Relational Database Design

Winter 2025 - Current

- Designed and deployed a full-stack note-taking web application utilizing a low-code architecture.
- Architected the backend infrastructure, writing custom SQL queries to securely manage, store, and retrieve user data records.

SecureExam-Generator | Python, Automation

Winter 2025- Current

- Developed a dynamic Python script to automate the creation of secure PDF exam papers.
- Engineered features including dynamic filigree generation, randomized layouts, and automated QR code integration for document tracking.

C Utility Applications | C, Memory Management, Algorithm Design

Spring 2026 - Current

- Engineered a series of lightweight, highly efficient C-based programs focused on optimal resource allocation.
- Applied lower-level computer science concepts including pointers and dynamic memory allocation to solve algorithmic challenges on hackerrank.

Technical Skills

Languages: C, Python, SQL

Platforms & Tools: Kuika, Webflow, LaTeX, Git

Core Competencies: Relational Database Design, Algorithm Design, Dynamic Memory Allocation, Data Mining