

Mehmet Akif Şahin

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Website · LinkedIn · GitHub · ORCID

EDUCATION

- **Bilkent University** Ankara, Turkey
M.S. in Computer Science *Sep 2026 – Present*
 - Supervisor: Prof. Uğur GÜDÜKBAY.
- **Bilkent University** Ankara, Turkey
B.S. in Computer Science *Sep 2022 – Jun 2026*
 - Graduated summa cum laude with a CGPA of 3.92 / 4.00, ranked 4th in cohort. Admitted on a full (100%) merit scholarship after ranking 266th nationally in the university entrance exam (YKS) among 3M+ candidates.
 - Received A+ grades in 12 courses: CS101, CS102, CS202, CS224, CS315, CS464, CS465, CS473, MATH102, MATH230, PHYS101 and IE400.
- **Atakum Science and Art Center** Samsun, Turkey
Mathematics programme *2012 – 2022*
 - Selective institution for gifted students; early independent mathematics research, two TÜBİTAK awards and one article.
- **Garip Zeycan Yıldırım Science High School** Samsun, Turkey
High School Diploma *2018 – 2022*
 - CGPA: 98.58 / 100.

PUBLICATIONS

- **Data-driven Inverse Kinematics using Laban Movement Analysis:** Mehmet Akif Şahin, Sinan Sonlu, Uğur GÜDÜKBAY. Computers & Graphics, vol. 138 (Proc. SMI 2026). Honorable Mention. Article.
- **Generalization of Multi-Dimensional Polygonal Numbers:** Mehmet Akif Şahin, Berkay Semiz, Esra İnan. Caucasian Journal of Science, vol. 9, no. 2, pp. 75–94, 2022. Article.

RESEARCH INTERESTS

- Computer Graphics, Data-Driven Inverse Kinematics, Character Animation & Motion Synthesis, Human–Computer Interaction, Virtual Reality, Automated Software Engineering, Statistical Pattern Recognition, Structural Health Monitoring.

EXPERIENCE

- **Sebiza Technology** Ankara, Turkey
Researcher Jun 2026 – Present
 - Conduct research on computational and signal-processing methods for structural health monitoring, focusing on statistical estimation and geometric methods for analysing sensor data.*Software Developer* Jul 2025 – Jun 2026
 - Built Riskoloji, a sensor-based structural health monitoring platform supporting continuous measurement, data analysis, reporting, and comparisons before and after earthquakes.
- **Bilkent University** Ankara, Turkey
Undergraduate Researcher Feb 2024 – Jun 2026
 - Developed data-driven solutions to human-body inverse kinematics problems using Laban Movement Analysis, supervised by Prof. Uğur Güdükbay. The work culminated in a paper published in Computers & Graphics and presented at SMI 2026, where it received an Honorable Mention.
- **Inria — VIRTUS team** Rennes, France
Research Intern Jun – Aug 2025
 - Designed and implemented an immersive VR experiment in Unity investigating expressive conversational virtual agents. Ran a user study on how agent personality traits shape user engagement and learning. Mentored by Dr. Katja Zibrek.
- **MobileAction** Ankara, Turkey
Software Engineer Intern Jul 2024
 - Built modular backend services with Spring Boot, Java, and RabbitMQ, and web interfaces with Vue.js and TailwindCSS.
 - Developed a RESTful application using the OpenWeatherMap API to retrieve historical air pollution data; used Vite, Vue.js, Pinia and TailwindCSS.
- **Monkedo** Remote
Backend Developer Intern May – Sep 2023
 - Built reusable API-integration components in TypeScript, making third-party APIs accessible to non-technical users.

HONORS / AWARDS

- Summa Cum Laude — Bilkent University (CGPA 3.92 / 4.00, 4th in cohort).
- High Honor Student — all 8 semesters at Bilkent University.
- inzva Algorithm Competition, Winter Camp 2024 — 2nd place; selected as 1 of 50 from 222 students nationwide.
- inzva Algorithm Competition, Summer Camp 2024 — advanced level; selected as 1 of 50 from 121 students nationwide.
- TÜBİTAK 2204 Research Competition — Regional 1st place (2020) and 2nd place (2021).