

Ege Özbilen

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EDUCATION

University of Illinois at Urbana-Champaign – B.S. Computer Science, Expected May 2029

TED Ankara College High School

RESEARCH EXPERIENCE

IEEE, Conference on Artificial Intelligence, 2026 – Presenter, First Author

Feb. 2025 – May 2026

- Built a Spiking Neural Network for pneumothorax detection targeting neuromorphic hardware, matching CNN baselines at lower compute with 50% less validation variance. First-author paper accepted to IEEE CAI 2026 and published in IEEE Xplore.

Society of Critical Care Medicine, Critical Care Congress, 2026 – Researcher, ML Developer

Sep. 2024 – Mar. 2026

- Curated and labeled a public ultrasound video set and trained models to flag pneumothorax; CNNs outperformed transformers in the low-data regime. Accepted to Critical Care Congress 2026.

WORK EXPERIENCE

Globalmiles Technology Inc. – Part-Time Software Engineer – Remote

Dec. 2023 – May 2026

- Built the LLM chat framework powering customer service, using function calling and structured outputs; added a BERT-based moderation layer to detect prompt injection and unsafe content.
- Built an OCR and semantic extraction pipeline for receipt images, scaling throughput from ~200 to ~1,500/day and cutting manual handling ~90%; app rating rose from 2.8 to 4.7.

VoiceX – Cofounder and CTO – Berkeley, CA & Remote

Jul. 2025 – Mar. 2026

- Built an AI speech coach that scores recorded speech for pronunciation and intelligibility at ~90% accuracy across 20+ accents, returning targeted exercises per speaker.
- Designed and deployed the backend: audio upload and processing, auth, payments, and progress analytics; led a cross-functional team of developers, researchers, and marketers.

PERSONAL PROJECTS

FitAgain – Individual Project

Jul. 2024 – Oct. 2025

- Built after an injury of my own left me without usable training guidance. Full-stack app generating personalized workout plans for athletes with injuries or mobility impairments, scoring exercises on safety, goal alignment, and equipment against injury phase and range-of-motion limits; REST API with JWT auth plus a UI with muscle-activation visualizers and weekly progress tracking.

Pratik – Individual Project

Nov. 2024 – Feb. 2026

- Built a camera-based homework solver transcribing handwritten problems from photos, powered by cerebrum, my custom library decomposing problems into verified intermediate steps, built before reasoning models were available and beating single-pass prompting on multi-step work.

EXTRACURRICULAR ACTIVITIES & LEADERSHIP

Ted Application Development Club – Cofounder and Lead Developer

Sep. 2024 – Jun. 2026

- Organized development and product direction for a school-wide teacher admin platform used by hundreds of faculty. Led a team to design, build, and deploy a full-stack PWA, TedApp, for scheduling, exam tracking, duty assignments, and catering integration.

FIRST Robotics Competition – Programming Captain

Sep. 2024 – Jun. 2026

- Led automation code and built a detailed physics simulation predicting robot odometry, orientation, and motor torque. Team won the national FRC championship in Istanbul.

SKILLS & INTERESTS

- Languages:** Python, C, C++, Rust, Zig, Java, C#, TypeScript, JavaScript, HTML, CSS, SQL
- ML:** PyTorch, TensorFlow, CNNs, transformers, spiking neural networks, snntorch, LLM APIs, computer vision, OCR
- Web & Infra:** FastAPI, Flask, SvelteKit, HTMX, SQLAlchemy, PostgreSQL, Docker, Azure, Git, pytest
- Spoken:** Turkish (native), English (C2, IELTS 8.5), German (B1)