1. Contact Information

Ali Hamza Peçenek

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Location: Istanbul, Turkey

2. Summary

Computer Science sophomore at Turkish-German University with a strong interest in quantum computing, machine learning, AI, data engineering and web development. Seeking an internship to apply and deepen my knowledge in web development and AI research. Motivated by projects that create meaningful impact beyond profit.

3. Education

Turkish-German University - Bachelor of Science in Computer Science
Expected Graduation: 2027
Current GPA: 3.07
Relevant Coursework: Object-Oriented Programming, Statistics, Operating Systems, Database Systems, Linear Algebra, Discrete Structures, Embedded Systems

Tofaş Science High School
Graduation: 2022
GPA: 3.9
Relevant Projects: Designed a line-following robot-car with Arduino Uno.

4. Skills

Programming Languages: Python, Java, JavaScript, C, SQL

Web Development: HTML, CSS, React, Django

Tools & Frameworks: Git, TensorFlow, scikit-learn, pandas, NumPy, matplotlib

Concepts: Machine Learning, AI fundamentals, Quantum Computing (studying), Database Systems

Soft Skills: Problem-solving, self-motivation, adaptability, fast-learning

5. Experience

STEM Mentor & Robotics Assistant - Türkiye Teknoloji Vakfı - Internship

December 2022 – June 2023

Selected for a mentorship-based program at "T3 Vakfı".
- Taught robotics, Arduino, and basic programming to middle school students.

- Assisted instructors in planning and delivering STEM workshops 2–3 times per week.
- Developed communication, leadership, and teaching skills through direct mentoring.
- Supported hands-on projects in electronics and coding, helped 8 students build their first robots

Board Member - TAU Inf[X] – Informatix Club

September 2024 - Current

Actively involved in the leadership and operational management of InformatiX, the technology and informatics club of Turkish-German University

6. Certifications / Courses

Harvard's CS50 Series: AI, Python, Web, Cybersecurity, Database, Introduction to Computer Science

Global AI Hub: Python, Machine Learning, Hyperautomation, Deep learning, Artificial Intelligence

YetGen: AIforSkills certificate

TestDaf: B2 certificate

GEN Academy: Software Technologies and Artificial Intelligence certificate

Kaggle: Python, Pandas, Machine Learning, Data Visualization, Natural Language Processing, JAX, TensorFlow, SQL, Deep Learning, Computer Vision, AI Ethics, Game AI and Reinforcement Learning

Akbank: Sustainability and Ethics certifications

7. Projects

Personal Website
May 2025 – August 2025

- Developed a responsive personal portfolio website using React for the frontend and Django for the backend API.

- Designed and implemented dynamic content sections to showcase CV, projects, and achievements.

- Integrated backend services for contact form handling and data management.

- Ensured cross-device compatibility and optimized site performance for fast loading.

- Gained experience with RESTful API design, frontend-backend integration, and deployment processes.

Text-based Game with ML
April 2025 – July 2025

- Implemented machine learning algorithms using Python (scikit-learn, pandas) to create adaptive gameplay that changes based on player behaviour.

- Designed game logic and data structures for a text-based interface, focusing on replayability and user experience.

- Applied data preprocessing and model evaluation to improve the AI's decision-making over time.

School Feedback Website
July 2025 – September 2025

- Built a full-stack web application using React for the frontend and Firebase for backend and authentication.

- Enabled students to rate teachers and classes with real-time updates and data storage.

- Implemented user-friendly UI components and ensured data security and privacy compliance.

- Gained experience in cloud database management and deployment workflows.

8. Language

Turkish (Native)

English (fluent)

German (Intermediate)

Italian (beginner)

9. Interests

Interested in volleyball and fitness since high school. I play piano as a beginner and currently involved in a few long-distance running contests. Also interested in philosophical and ethical concepts related to technology and society.