



**Hasan Emre Persilioğlu**

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Software Engineer

Istanbul/Turkey

## SUMMARY

“As a computer engineer, I am eager to specialize in computational systems and software engineering, with a focus on innovative software solutions and large-scale data analysis. I aspire to combine my interests in computer science and technology to solve complex technical challenges and develop cutting-edge applications in the future. Currently, I am dedicated to gaining the skills and knowledge needed to achieve these goals and contribute to advancements in the tech industry.”

## EDUCATION

**2025**

**Kocaeli University, Turkey**

Computer Engineering

**2019**

**Karesi High School, Turkey**

High School Degree- Graduated with a GPA of 95.12/100.

Head of Student

## EXPERIENCES

**Jul 2024-Sep 2024**

**Strategic Planning Intern**

*NEF-ISTANBUL*

- Responsible for ERP system used by entire company
- Ensures that projects are initiated, coordinated and managed together with all stakeholders in order to achieve company's strategic goals. Finding developments that will benefit company and taking part in integrating them into company
- Created data models to support decision-making processes. Responsible for efficient and orderly operation of company processes
- Developing necessary reports according to needs of departments

Apr 2022-Dec 2022

**Assistant Specialist in Digital Transformation Department**  
*NEF-ISTANBUL*

- Joined as one of the first two interns to support the ERP system's foundational launch, taking part in project planning, system setup, and communication between operational units.
- Participated in intensive training sessions during the company's transition to IFS ERP, building deep functional knowledge to support process integration and end-user adaptation.
- Conducted research for various projects, leading to well-informed decisions and successful outcomes.
- Ensuring that employees comply with ERP and providing training
- Ensuring efficient use of new technologies such as RPA and BIM

## PROJECTS

- **Graduation Project – AI-Based Resume Classification & Recommendation System**

Developed a machine learning system that classifies CVs by professional field and provides career insights using both unstructured text and structured data (education, experience, certifications). Built a hybrid Longformer-based architecture with multilingual preprocessing, achieving ~94% F1 score. The system also ranks CVs and offers tailored suggestions by comparing individual profiles against thousands of real resumes to identify common career paths and skill gaps.

- **International Sustainability & Youth Empowerment Project – North Macedonia (2025)**

Selected to represent my university in a ministry-backed international mobility project focused on NEET engagement and sustainable development.

Participated in sustainability workshops and strategy sessions, developed solutions for youth-related issues, and through intercultural collaboration.

The program fostered critical thinking, idea generation, and teamwork in a multicultural setting.

- **School Projects:** (<https://github.com/HasanEmre911>)

- I. **Kelime Mayınları – Multiplayer Mobile Word Game**

Designed and developed a real-time multiplayer mobile word game using client-server architecture. Implemented secure login, dynamic game mechanics with randomized mines and rewards, and interactive UI with score tracking, ensuring smooth gameplay across multiple concurrent users.

- II. **MultiZoo Animal Classifier – Transformer-based Image Classification Project**

Built a transformer-based image classifier (ViT/Swin) to identify animal species from a custom dataset. Applied preprocessing, augmentation, and hyperparameter

tuning to reach high test accuracy. Integrated the model into a desktop interface that allows users to upload and classify unseen images in real time.

### III. Secure Document Anonymization System

Developed a secure web-based system enabling researchers to upload academic manuscripts, which are then anonymized for peer review. Designed multi-role functionality (Author, Editor, Reviewer) and implemented automated anonymization using custom parsing methods without third-party AI APIs.

## SKILLS

- Java, Python and C
- Classifications and Clustering
- Machine Learning
- Data Analysis
- Problem-Solving
- SQL, PL-SQL, NO-SQL
- ERP Systems
- Driver License

**Programs:** Microsoft Office, Power BI, IFS, MatLab

## ORGANIZATIONAL ACTIVITIES

### • Co-founder & Software Team Lead, ChipwareLabs 2024-2025

Led software development in AI-powered and embedded systems projects. Oversaw technical coordination and contributed to R&D planning in a student-led innovation community.

### • Volunteer, Turkish Red Crescent (Kızılay) 2024-Present

Participated in humanitarian efforts including disaster response, blood donation campaigns, and community outreach programs.

### • Youth Volunteer, Balıkesir Youth Center 2024-Present

Supported educational workshops, mentored peers, and contributed to youth-led initiatives aimed at skill development and civic engagement.

### • Social Media Director, Animal Lovers and Protecting Club of KOU 2021-2022

Managed and supervised all social media channels of the club. Designed and scheduled awareness content to promote animal rights and environmental responsibility.

### • TEMA Foundation Active Volunteer 2019-2021

Engaged in environmental campaigns, tree planting activities, and public awareness projects as part of Türkiye's leading environmental NGO.

- **Student Representative, Karesi High School 2018-2019**

Elected by peers to represent student interests, mediate between administration and students, and lead school-wide initiatives.