TAN CETINER

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SUMMARY

Computer science master's student with a wide range of interests and experience in computer graphics, software engineering, computer vision, data science and parallel computing. Seeking admission to a second-year master's program to advance skills and contribute to cutting-edge research in computer science.

EDUCATION

Institut Polytechnique de Paris - Paris, France   2023 - Present

- Master of Science in **Computer Science. Interaction, Graphics & Design** track.

Sabanci University - Istanbul, Turkey   2018 - 2023

- Bachelor of Science in **Computer Science and Engineering.** Minor in **'Philosophy'**.
- GPA **3.62/4.00**

University of Turku - Turku, Finland   2022

- Studied in Turku for one semester as an exchange student.

Izmir Science High School - Izmir, Turkey   2014 – 2018

- Entered this high school with a **0.03%** success rate nationwide.

EXPERIENCE

Freelance Web Development   August 2023 - Present
Web Developer   *Paris, France*

- Collaborating with clients to deliver customized web solutions, specializing in **PHP Laravel, Livewire, and PostgreSQL,** while implementing responsive designs and optimizing performance for an enhanced user experience.

Yapi Kredi Teknoloji   August 2022 - August 2023
Software Engineer   *Istanbul, Turkey*

- Developed full-stack web applications in a microservice architecture using **Java Spring Framework** for the backend and **React.js** for the frontend, collaborating with cross-functional teams in an Agile environment to ensure high-quality software.

Yapi Kredi Teknoloji   June 2022 – August 2022
Software Engineer Intern   *Istanbul, Turkey*

- A machine learning model for predicting real estate prices was developed using **Python** language by a team of 7 people, through processing the bank's datasets with over 200 thousand rows.

Sabanci University   February 2021 – June 2021
Learning Assistant   *Istanbul, Turkey*

- Introduced the fundamentals of programming and implementations with **C++** to peers for the CS201 course.

Nokia   February 2021
Engineering Intern   *Istanbul, Turkey*

- Studied 5G technologies and their use cases with a group of 5 students for two weeks, culminating in a presentation.

Sabanci University   September 2019 – January 2020
Learning Assistant   *Istanbul, Turkey*

- Mentored about 'Computational Thinking' and practices with **Python** for the IF100 course.

AquaSafe Pool Management, Inc.,   June 2019 – September 2019
Lifeguard   *Delaware, United States*

- Took the responsibility for a pool facility as a lifeguard, during the work and travel program in the US.

PROJECTS

IGD901 (Research Project, Present) - For my M1 research project, I will be working with GPAC on a project called "A Web-Based Visualization of Dynamic Multimedia Processing Graphs".

Mixed Reality (Course, 2023 Fall) - Developed a tower defense game that combines **mixed reality** and **tangible interactions**, utilizing markers and marker recognition technology to enable interaction through physical objects.

Machine Learning and Deep Learning (Course, 2023 Fall) - An **extractive summarization system** was developed by our team using machine learning techniques to predict the importance of each utterance in a dialogue transcription.

Parallel Computing (Course, 2023 Spring) - Analyzed and evaluated the capabilities of ChatGPT to detect, classify and fix performance-related bugs in **C++**, **OpenMP** and **CUDA** codes.

PURE (Research Project, 2023 Spring) - Worked on computer vision object detection algorithms for handwritten text recognition for century-old Ottoman documents, using **Pytorch**.

Network Science (Course, 2023 Spring) - Performed network science analysis using Python with **Scrapy** and **Networkx** to map connections within theater communities in Türkiye, uncovering collaboration patterns between directors and actors.

Graduation Project (2023 Spring) - Developing a **blockchain-based** voting mechanism for student organizations by implementing DAO (Decentralized Autonomous Organization) structures, using **Solidity** and **React.js**.

Computer Vision (Course, 2022 Fall) - A face morphing project was undertaken to introduce an AI-assisted face morphing technique that utilizes machine learning to automatically generate smooth transitions between two or more faces.

Blockchain: Security and Applications (Course, 2022 Fall) - Created a forum that consists of anonymous but verifiable university students with the help of blockchain technologies. **Solidity** and **React.js** is used.

PURE (Research Project, 2022 Spring) - Researching the **NLP** side of a project aiming for analyzing the education materials to find out prerequisite relations. Using **Python** language with libraries like NLTK and Gensim.

Software Engineering (Course, 2021 Fall) – Developed a full-stack web application written in **Flutter** and **Python Django**.

Computer Graphics (Course, 2021 Fall) – A fully playable 3D game was developed using the **OpenGL** library of **C++**. Functionalities such as lighting, smooth shading, texture mapping, and camera were implemented from scratch.

Database Systems (Course, 2021 Spring) – Designed and developed a functional **SQL** database and web application using **PHP**, **HTML**, and **CSS** for a bus company's daily operations.

Data Science (Course, 2020 Fall) – Three key questions regarding commonly held myths about the NBA were answered by analyzing and visualizing NBA data using **Python**, along with libraries such as **Pandas, Sklearn, and Matplotlib**.

VOLUNTEER EXPERIENCE

Bogazici University Mentorship Program / Mentor   2023 - Present

- Mentoring a high school student by helping him prepare for university exams, and guiding pursuing a career in engineering.

Sabanci University Theater Community / Chairman   2020 - 2021

- Coordinated more than 30 rehearsals, directed 2 radio dramas, conducted 3 interviews with theater actors, etc.

Sabanci University (Civic Involvement Project) / Theater Director & Actor   2020

- Arranged a 5-day tour with a theater play for kids, performed to over 2000 kids who have no access to theatre in their region.

CIP / Student Volunteer   2019

- Paid weekly visits to 'Kartal Senior Center', and organized activities to help elderly people socialize.

LANGUAGE SKILLS

- Turkish - Native
- English - Toefl Score: 109 / 120