

Sinan Yumurtacı

High school
senior pursuing
entrepreneurship

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How I Define Myself

I'm an avid learner and I deeply enjoy creating.
I work to solve real-world problems with digital solutions on a daily basis and my ambition is to be a tech entrepreneur.
Deep inside, the seamless cooperation of all the systems running our universe constantly fascinates me.

Competitions & Examinations

26th National Computer Olympics 2. Stage Exam (by TÜBİTAK)
December 2018
To be determined.

SAT
October 2018
To be determined.

IELTS
18, 21 August 2018
Scored 7.5 overall. (Reading: 9.0, Listening: 8.0, Speaking: 7.5, Writing: 6.5)

Harvard Essay Contest (by the Harvard Alumni for Global WE)
June 2018
Certificate of Excellence for my winning submission.
I was gifted a book for my achievement.

AP Computer Science A (by CollegeBoard)
May 2018
Scored 5 out of 5.

26th National Computer Olympics 1. Stage Exam (by TÜBİTAK)
May 2018
Ranked 5th in Turkey among 114 contestants.
Invited to the 2. stage exam of the olympics.
Admitted to TÜBİTAK's summer camp.

Sir Isaac Newton Physics Exam (by the Waterloo University CEMC)
May 2018
Certificate of Distinction for placing within the 65th percentile in Turkey.

Çekmeköy Municipality Project Competition
May 2018
4th place with my project Cell-fie Education Kit (see Projects).

Competitions & Examinations

(continued)

MEF Schools Project Competition

May 2018

3rd place with my project Cell-fie Education Kit (see Projects).

Bayrampaşa Municipality Project Competition

April 2018

3rd place with my project Cell-fie Education Kit (see Projects).

MEV Project Competition

April 2018

Invited to the final project showcase with my project Cell-fie Education Kit (see below, Projects).

Hypatia Contest (by Waterloo University CEMC)

April 2018

Certificate of Distinction for ranking in the top twenty-five percent of contestants.

Fermat Contest (by Waterloo University CEMC)

March 2018

Certificate of Distinction for ranking in the top twenty-five percent of contestants.

Beaver Computing Challenge (by the Waterloo University CEMC)

2016

Listed in the honor roll.

Izmir Athletism Competition (by the Turkish Ministry of Sports)

2016

Ranked *3rd in Izmir* in the shot put competition.

Turkey Swimming Competition (by the Turkish Ministry of Sports)

2015

Ranked 30th in Turkey for 50 meters freestyle, ranked 32nd in Turkey for 400 meters freestyle.

Gauss Contest (by the Waterloo University CEMC)

2014

Certificate of Outstanding Achievement for receiving the highest score.

Certificate of Distinction for ranking in the top twenty-five percent of contestants.

Projects

Blockchain Based Verifiable Election Protocol - Science Project

April 2018 - Ongoing

I am working to bring the advantages of the blockchain technology to the core of any democracy, elections. I am very passionate about this project and I am aiming to develop a secure and reliable election protocol.

This is the science project I am working on right now. I will be applying to various project competitions in the 2018-2019 education term.

Projects

(continued)

Kofuun - Educational Game Project

June 2018 - Ongoing

I am building a number of educational games all aiming to improve the teamworking and communication skills of primary school students. I am collaborating with a friend of mine on this project.

This is currently a work in progress. We are planning to execute the first real-life tests in my school as soon as the 2018-2019 education term starts.

Cell-fie Education Kit - Science Project

October 2017 - Ongoing

To solve this problem, we have designed a microscopic education kit complete with an inexpensive microscope and an online platform to store and share lesson-related content. Our experiments proved that our microscope was capable of reaching magnifications required in all high school and some university lectures.

The problem I've tried to solve was that biology is taught mostly theoretically. This lowers the students' interest and motivation. A solution is using microscopes to supplement the lessons but the current cost of such equipment renders this solution unrealistic. I believe prototyping an inexpensive microscope is a huge step towards making better education accessible to everyone.

This project won awards in multiple project competitions (*see above, Competitions & Examinations*).

duobul.net - Website Project

November 2017

This website helps e-sport players find friends and teams to play with. I have handled all the aspects of building the website and growing an user base. Therefore, I have learned and experienced tons about building a website for the public use.

Relevant skills: Front-end development, Back-end development, REST APIs, SEO, UI/UX, digital marketing, monetization with advertisements.

Relevant technologies: PHP, MySQL, JavaScript, jQuery, Google Ads, Materialize Framework, HTML5 and CSS3.

I have learned and experienced a lot by wearing several hats at once. As of August 2018, the website has over 2200 monthly users. Seeing my website helped others connect ignited my passion for creating.

You can visit the website online at duobul.net. (Turkish)

"zephyrgame.com" - Website Project

Projects

(continued)

February 2018 - Ongoing

This is a simple blog with gaming content. I've built it for experimenting with several technologies and practicing digital marketing skills.

Relevant skills: SEO, UI/UX, content marketing, monetization with advertisements.

Relevant technologies: Wordpress, Amazon Web Services Hosting, Google Ads, Git VCS

You can visit the website online at zephyrgame.com. (English)

"Derse Hazırım" - Science Project

October 2016 - June 2017

This project consisted of a website for teachers to share files with and track assignments of their students. It was a really useful experience in both preparing projects and developing websites. This project didn't qualify for any project competitions.

Relevant skills: Front-end development, Back-end development, REST APIs.

Relevant technologies: PHP, MySQL, JavaScript, jQuery, Materialize Framework, HTML5 and CSS3.

Extracurricular Activities

Summer Internship at ByNoGame as a Software Developer

July 2017 - Aug 2017

I worked at Turkey's leading online gaming marketplace as a software developer intern for 2 months during the summer break.

I was responsible for developing minigames for their website and an internal tool for the accounting department.

Relevant skills: Front-end development, Back-end development, REST APIs.

Relevant technologies: Python, PHP, MySQL, JavaScript, Git VCS, HTML5 and CSS3.

Overall, I have learned a lot from experiencing the corporate culture as well as programming in an enterprise environment.

Extracurricular Activities

(continued)

Software Development Freelance Work

2017

Worked as a freelancer for 6 clients in a total of 8 projects, mostly writing Python code. My experience freelancing included the whole process; from contacting potential customers to making sure they are happy with the final product. I learned a lot about the online programming landscape by freelancing.

Relevant skills: Front-end development, Back-end development, REST APIs.

Relevant technologies: Python, PHP, MySQL, JavaScript, Git VCS, HTML5 and CSS3.

I believe being able to create and sell a virtual asset was what propelled my interest to create the most.

Sports

Ongoing

I enjoy swimming, cycling and doing yoga. I have regional and national rankings in swimming and athleticism (*see above, Competitions & Examinations*). Out of all sports, cycling is the most thrilling to me because it provides opportunities to observe natural life found nowhere else.

Courses

TÜBİTAK National Olympics Summer Camp (by TÜBİTAK)

1-15 September 2018

I was accepted to this course due to my success in the 26th National Computer Olympics 1. Stage Exam (*see above, Competitions & Examinations*).

Google Developer Challenge Scholarship Recipient to the Mobile Web Specialist Track (by Google through Udacity)

November 2017 - September 2018

I was accepted to this scholarship including tens of hours of valuable online lessons and participation in a community of other scholarship recipients.

Topics: Building offline-ready websites using the service worker technology, ES6 and ES2015.

Result: Successfully completed all course material.

CS-Bridge Intro to Computer Science Course (by Stanford University at Koç University)

June 26th, 2018 - July 6th, 2018

During the 2-week summer course with content developed by the Stanford University, I engaged in a vibrant community of students and great teachers.

Topic: Fundamental programming concepts in Java.

Result: Completed successfully, Certificate of Completion

Courses

(continued)

Blockchain for Business - An Introduction to Hyperledger Technologies [LFS171x] (by LinuxFoundationX through edX)

June 2018

I learned about various Hyperledger projects such as Hyperledger Iroha, Hyperledger Sawtooth, and Hyperledger Fabric. I also deployed basic blockchain networks using Hyperledger technologies. I am currently implementing these networks for my project "Blockchain Based Verifiable Election Protocol" (*see above, Projects*).

Topic: Hyperledger Iroha, Hyperledger Sawtooth and Hyperledger Fabric.

Result: Completed all the course material successfully and had a final grade of 90% (the passing the grade was 70%). I couldn't afford a verified certificate.

Fat Chance: Probability from the Ground Up [FC1x] (by HarvardX through edX)

June 2018

In this course I learned about various probabilistic and statistic concepts applicable to my everyday life. I feel this knowledge is crucial for those interested in computers.

Topic: Counting, probability and statistics

Result: Completed all the course material successfully and had a final grade of 95% (the passing the grade was 60%). I couldn't afford a verified certificate.

Storytelling in the Workplace [SKILLS104x] (by RITx through edX)

June 2018

I learned about the importance of storytelling in our daily communication, for both professional and personal relationships. I also got to watch 6 insightful interviews.

Topic: Successfully leveraging storytelling as a relationship tool

Result: I completed all the course material successfully and had a final grade of 98% (the passing the grade was 75%). I couldn't afford a verified certificate.

FreeCodeCamp Front-End Development Certification

June 2018

In this online course, I learned about the fundamental principles of front-end development and implemented those principles in several web projects.

Topic: Counting, probability and statistics

Result: Completed all the course material successfully and had a final grade of 95% (the passing the grade was 60%). I couldn't afford a verified certificate.

Technology Knowledge

Programming Languages: Python, PHP, Java, JavaScript, C++.

Data Storage: MySQL, MongoDB.

Data Formats: JSON, XML.

Web Front-end (Libraries): Materialize Framework, JQuery, SocketIO.

Web Back-end (Libraries): Python Flask, Flask-SocketIO, PHP PDO.

Non-programming: SEO, Social Media Marketing, Google Ads

Miscellaneous: Git VCS, Hyperledger Projects, Distributed Ledger Protocols, Bash/Terminal, Object-oriented programming, Amazon Web Services, Web Security, REST APIs

Education

Özel Ege Lisesi - High School

September 2015 - June 2019 (projected)

Average GPA (9th to 11th grades): 93.35/100

Özel Ege Lisesi - Middle School

September 2012 - June 2015

Average GPA (5th to 8th grades): 95.97/100

Özel Ege Lisesi - Primary School

September 2007 - June 2012

Languages

Turkish - Native

English - Advanced

French - Beginner