

Eren Doğan

Cell phone: +90 535-067-5789
Özyeğin University, Çekmeköy, İstanbul 34794, Turkey
eren.dogan@ozu.edu.tr • <https://github.com/biarmic>

SUMMARY

Coding skills in C, C++, Python, Java, JavaScript • RTL design with Verilog • Experience in PyTorch • TAsip experience

EDUCATION

BSCS, June 2022 (expected), Özyeğin University, İstanbul, Turkey (GPA: 4.00/4.00)

EMPLOYMENT

Undergraduate TA at Özyeğin University, İstanbul, Turkey, September 2019 – June 2020

Assisted the following courses: Computer Programming (CS101), Digital Systems (EE203)

PROJECTS

Secure Chat (October 2020 – January 2021): A chat application was developed for the Computer Networks course (CS447) at Özyeğin University. Client-server communication was developed using Python sockets. Encryption methods were used to implement end-to-end encryption for Internet chat. Wrote 500 lines in Python and spent approx. 15 hours net on this project. (Available online at GitHub.)

To-Do Manager (October 2020 – January 2021): A web application was developed for the Web Application Development course (CS391) at Özyeğin University. Users can add or remove to-do lists and to-do items to lists. Wrote 300 lines in JavaScript and spent approx. 10 hours net on this project. (Available online at GitHub.)

Image Processor JS (October 2020): An image processing simulator in JavaScript. Some image processing algorithms were implemented for educational purposes. Wrote 400 lines in JavaScript and spent approx. 15 hours net on this project. (Hobby project, available online at GitHub.)

Pathfinder JS (October 2020): A path finding simulator in JavaScript. Some shortest path finding algorithms for grid mazes were implemented for educational purposes. Wrote 600 lines in JavaScript and spent approx. 20 hours net on this project. (Hobby project, available online at GitHub.)

OutRun JS (June 2020 – July 2020): A game simulator for the arcade game OutRun in JavaScript. Pseudo 3D game engine (faking 3D projection in a 2D world) was developed for this project. Wrote 1,200 lines of JavaScript and spent approx. 40 hours net on this project. (Hobby project, available online at GitHub.)

VerySimpleCPU (February 2020 – June 2020): A Verilog RTL implementation of ProjectCPU, which is a cross between VerySimpleCPU (a.k.a., VSCPU) and PIC16. VSCPU ISA was developed at Özyeğin University to make teaching Computer Architecture (CS240) easy. The RTL was simulated and then synthesized. As part of grading, it was deployed on FPGA. A project on automated customization of VSCPUs was funded by TÜBİTAK (Turkish NSF). VSCPU is a powerful MCU with only 8 instructions, and it is "instruction set complete." See <http://verysimplecpu.org/> and <http://cpu.tc/>. Wrote 200 lines of Verilog and spent approx. 25 hours net on this project.

Simple Games in Java (July 2019 – February 2020): Chess, Snake, Pacman, Minesweeper, Solitaire, Tetris, Uno, and Monopoly games were developed in Java to gain and improve coding skills. Wrote 8,000 lines in Java and spent approx. 200 hours net on these projects. (Hobby projects, available online at GitHub.)

MISCELLANEOUS

TOEFL iBT score of 103 out of 120 (October 2020)

Top ranking student in the class of 2022 within engineering majors