Hamza Pehlivan
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EDUCATION

2016-Present **Bilkent University, Faculty of Engineering, Ankara, Turkey**

B.S. in Computer Science, degree anticipated June 2021; CGPA 3.48/4.00

Projects:

- **Semantic Editing of Images:** I am currently designing a new neural network model to edit images. My supervisor and I plan to release a new paper about the topic. Gained hands on experience about deep generative adversarial neural networks. All the models are trained in Bilkent server using 4 GPUs in parallel. The code is containerized with Docker, which I installed and configured in the Bilkent server. This work is the product of 'Introduction to Research in Computer Science' course.
- **Operating System Related Projects:** Implemented and compared different CPU scheduling algorithms in an environment where multiple threads can request CPU. To prevent race conditions mutex locks are used. Implemented a basic file system in which processes can add, delete, write, and read files. All projects are written in C and compiled/ran in a Linux environment (Ubuntu 18.04).
- **Simple Online Text Editor:** A socket programming project written in Java. Users can add, delete, and edit the content of a given txt file online. A new application layer protocol is implemented. Server and clients communicate using this protocol.
- **CSCareer:** Contributed to the coding of quiz solving and result viewing processes of a quiz-based hiring system for computer-science related departments. Designed a relational database with entity-relationship diagram. Used technologies are Apache, PHP, MySQL, HTML, JavaScript, and CSS.
- **Fiyuv ++ / A New Version of Defender Game:** Contributed to coding of fight scenes of final enemies in the new version of defender game by using Java / JavaFX. Designed and prepared essential UML diagrams like use case, class, and sequence. The project follows the guidelines of Object-Oriented Programming principles and design patterns. Git version control tool is used to increase collaboration.

EXPERIENCE

June-July 2020 **A2 Technology, Intern, Ankara**

- Implemented an under-vehicle inspection software by using OpenCV and C++. Main algorithms used are feature based image alignment with SURF and sliding windows search. Gained experience about computer vision techniques.

ADDITIONAL PROJECTS

Deep Learning Related:

- Finished "Introduction to Deep Learning" course offered by Stanford University. Implemented all the projects such as YOLO object detection algorithm and residual neural networks.

SKILLS AND ABILITIES

Computer:

- Python, PyTorch
- Docker
- Git
- OpenCV
- C
- C++
- Java
- MySQL
- Linux (Ubuntu), VirtualBox
- TCP/IP, Wireshark network analyzer

Languages: Turkish (native), English (professional working proficiency)

OTHER INFORMATION

Achievements & Certificates

- 2nd in IDEAthon organized by The Institute for Future Research and Microsoft, 2020
- 25th in ICPC Turkish Programming Competition, 2019
- Bilkent University Comprehensive Scholarship Student, 2016
- 1318th in the University Placement Exam (LYS), 2016