



Barış Cemal Onur

Date of birth: 03/04/1997 | **Nationality:** Turkish | **Gender:** Male | (+90) 5426116710 |

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About me: I received my Bachelor's degree in Computer Science from Ozyegin University in 2020, and I have been working at P.I. Works as a Software Support Engineer ever since.

● WORK EXPERIENCE

23/09/2020 – CURRENT – Istanbul, Turkey
SOFTWARE SUPPORT ENGINEER – P.I. WORKS

P.I. Works is a software company providing AI-driven mobile network planning, optimization and multi-vendor solutions to mobile operators worldwide.

I have been working as a Software Support Engineer since Sept. 2020 and I have been the customer prime of Lifecell Belarus since January 15th, 2020.

Primary activities performed:

- Monitor customer network data flow and ETL data processing pipelines in a daily manner.
- Fix data processing issues by modifying scheduled jobs, CM synch procedures, and pipeline configurations.
- Solve level 1 & 2 customer specific problems, determine the root cause of level 3 problems and forward them to related departments and follow the progress of an issue until it is resolved within SLA terms.
- Manage customer servers where backend services and products are running.
- Apply patches and upgrades of P.I. Works products on customer servers.

Support | Information and communication | <https://www.piworks.net/> |

Teknopark Istanbul Sanayi Mah., Teknopark Bul. No:1/3A 101, Pendik, 34906, Turkey

06/2019 – 09/2019 – Istanbul, Turkey
SOFTWARE ENGINEER INTERN – NETAŞ

Netas offers software solutions in information and communication technologies including end-to-end value added solutions, system integration and technology services to providers and corporations in both local and international markets.

Activities performed:

- Developed a task management tool from scratch with React.js library.
- Performed small tasks like implementing new features, refactoring, and bug fixing on a variety of projects mostly written in javascript.
- Participated in daily scrums and retrospectives.
- Observed software development life-cycles.

International R & D | Information and communication | <https://netas.com.tr/> |

Kurtköy, Osmanlı Blv. No:11, Pendik, 34912, İstanbul, Turkey

07/2016 – 02/2018 – Istanbul, Turkey
PART-TIME STUDENT EMPLOYEE, COLLECTIONS REPRESENTATIVE – GELECEK ASSET MANAGEMENT

- Followed debtors and made collections in debt
- Offered debtor payment using the bank credit option supported by Fibabank
- Carried out questionnaire study

● **EDUCATION AND TRAINING**

09/2015 – 07/2020 – Nişantepe, Orman Sk. No:13, Çekmeköy, İstanbul, Turkey
BACHELOR OF SCIENCE – Ozyegin University

Taken basic courses in Mathematics and Computer science are

- Data Structures and Algorithms
- Database Management Systems
- Object-Oriented Programming
- Operating Systems
- Discrete Maths
- Automata Theory and Formal Languages
- Calculus

Taken elective courses are

- Networked Entertainment
- Network Security

Field(s) of study

- Computer Science

<https://www.ozyegin.edu.tr/>

2011 – 2015
BEYOGLU ANATOLIAN HIGH SCHOOL

Field(s) of study

- STEM Focus

● **LANGUAGE SKILLS**

Mother tongue(s): TURKISH

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2
GERMAN	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **DIGITAL SKILLS**

Programming Languages

Java | Python | Web Development: HTML 5, CSS, JavaScript

Libraries & Frameworks

React | Node.js | Vue | Express | Flutter

Tools & Platforms

Versioning: Git, Github | NoSQL (Redis, MongoDB, Firebase) | Container (Docker) | Basic AWS knowledge. | Unity 2D/3D | SQL/MYSQL

Other Programming Languages (Less Commonly Used)

Programming Language Verilog, C, Visual Basic, Assembly. | C++ | haskell

● DRIVING LICENCE

Driving Licence: B

● PROJECTS

Analyzing Encrypted Network Traffic via TLS Interception

<https://github.com/barisconur/stream-monitoring-app>

This is my senior project that I worked on with Ali. C. Begen, my supervisor.

Project Details:

- Developed a stream-monitoring tool to display all video content history of LAN users.
- Performed ARP spoofing attack to capture network packets
- Analyzed and identified network packets, then data's stored in MongoDB
- Implemented a web application to show statistical data on graphs and tables

Keywords: Mitmproxy, Arpspoof, MongoDB, Express, Python, React, Bootstrap

Intrusion Detection System

<https://docs.google.com/document/d/1U0VKsxJa3gLvWb2pyCQOPRwCAIIZMG8vHg6H0fwxNs/edit?usp=sharing>

The project was inspired by scanlogd.

Project Details:

- Stored the possible scan entries by using hash tables of linked list entries that time-out after a certain threshold and lower ports (< 1024)
- Reimplemented the project in Python 3.
- Tested with different types of nmap scans to see if we are able to detect and log the scan.

scanlogd reference page: <https://www.openwall.com/scanlogd/>

Keywords: Nmap, Python, Network Security

Video Streaming over HTTP

I developed a streaming platform for the Networked Entertainment course.

Project Details:

- Developed a video streaming system by deploying NGINX web server on AWS EC2 machine.
- Encoded the webcam input and transferred it to the server by using RTMP.
- Client requested and played concurrent video chunks.

Keywords: AWS, NGINX, RTMP, HLS

AES-256 Password Based File Encryption

<https://github.com/barisconur/AESFileEncrypter>

I implemented a python program that encrypts and decrypts a file with AES-256, based on a generated key from the plain password, salt and secure random IV.

Keywords: SHA-256, AES, Cryptography, Python

Ozu Course Rating

<https://github.com/yigiterinc/ozu-course-rating>

We developed a web-based application with team of 5 CS students in software development course. The application allows students to provide feedback on the courses that they have taken.

Keywords: Vue, Firebase

● HONOURS AND AWARDS

Scholarship

50% Performance Scholarship in university entrance exam score.

● HOBBIES AND INTERESTS

Playing the piano

I have been playing the piano for over 10 years and I went to a musical academy while studying in high school.

Video Games

In my spare time, I like playing computer games and I usually play strategic card games like Hearthstone and multiplayer first-person shooter video games like CS:GO.

Paper Money Collection

I have been collecting paper money since high school. I'm mostly interested in printed money having Queen Elizabeth in the front of it. Canada, Australia, New Zealand and some islands are still using whether USD or pound but Queen Elizabeth portrait is located on the front of the paper.

● VOLUNTEERING

Taylan Yildiz Volunteers

Taylan Yildiz worked as an engineer at Google for many years and returned back to Turkey in 2017 and he has been a member of IYI political party since 2017 and he is currently working on smart partnerships to build our cities in Turkey with IBM Stars. He organizes an NGO consisting of volunteer young people to create innovative ideas and projects that will address internet infrastructure, Cyber Security and IT Law and so many other issues in Turkey and I've been a member of this organization since 12/10/2020.