

Tunahan Dağ

Summary: I would like to take a challenging and high-performance oriented role in my field. I take a huge interest in Cyber Security and Blockchain technologies.

I also love to build software architectures from scratch and work hands-on in those architectures, preferably designing and coding as well as managing it.

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EXPERIENCE

Aposto!, Istanbul, Turkey – Senior Software Engineer

10/2021 - PRESENT

I am the lead engineer in DreamCatcher! project funded by Google News Initiative. I am developing smart contracts and backend systems to enable article licensing between newsletter curators and readers. I heavily use Solidity, web3, Truffle and Node.js for this project.

Rapsodo, Izmir, Turkey – Project Coordinator

11/2020 - 10/2021

I am responsible for managing deep learning related projects and coordinating the requirements with the Singapore office. My responsibility includes deployments of Deep Learning models in edge devices, API implementation in C++ using Deep Learning Frameworks such as TensorRT, TVM, NCNN and RKNN, version control through BitBucket and agile project management using Jira and Confluence.

ETE Solutions, Izmir, Turkey – Team Leader

01/2020 - 10/2020

I am in charge of Datacenter, Operating Systems and Security team at ETE Solutions.

I have enabled the data center operations using VMware virtualization tools. The services I have set up include website and mail server hosting. I also actively use FortiGate firewall devices for the network security part of the servers.

Operating Systems part is related to creating and implementing a Linux based operating system which we can use in our products to achieve a platform independent operating system.

Security part involves data security, integrity, authentication and blockchain technologies that are used in our products.

Dataunitor, Stavanger Area, Norway – Project Manager

01/2020 - 10/2020

I was offered a job as Project Manager in Dataunitor which is another branch for ETE Solutions located in Norway. I work remotely for this company from Izmir, Turkey.

I am in charge of three projects at Dataunitor.

Apart from managing these projects, I also implemented solutions in them.

In BT Drift, I implemented backend solutions using Node.js and MongoDB.

STRENGTHS

Blockchain Technologies

Cyber Security

Design Patterns

Project Design, Development and Management

Data Center Management

Live Video Streaming

Deployment of Deep Learning Models

Team Player

PROGRAMMING LANGUAGES

C: 4/5

C++: 4/5

Java: 3/5

JavaScript: 3/5

Solidity: 3/5

Python: 2/5

Go: 2/5

AWARDS

1st place, 8.GBYF Undergraduate Theses, May 2019

3rd place, Code Masters by OBSS Company, December 2018

OTHER SKILLS

Hyperledger Fabric

Virtualization Tools

In cdem, I implemented backend solutions using Node.js and PostgreSQL. I also created a licensing system for this application.

In SourceCall, I also produced backend solutions using Node.js and PostgreSQL. The backend solutions include a payment and billing system which was implemented via Stripe API.

I also worked as an engineer in SourceCall for the real time video streaming part of the project. Here, I implemented a media server, a TURN server, load balancers, video encoder and video recorder using C, C++, Node.js and WebRTC.

ETE Solutions, Izmir, Turkey – Software Engineer

08/2018 - 12/2019

I was offered a job after my internship at this company and kept working in the “nginr” project where I directly implemented the “blocknetwork” data structure which is a 3D blockchain structure. During this project;

I produced a Surfer module to search in the constructed network and answer queries that were received from the client application.

I implemented a Load Balancer module between the Surfer modules and client applications to keep the backend services responsive all the time.

I also implemented a Learner module to search for specific events that occurred in the past which was not the point of interest at that time but an event made it the point of interest now.

I was also in charge of the security of this project. I used RSA and AES-GCM encryption/decryption protocols to transfer data securely between the modules. I used a dynamic one time use keys generation schema for every message that was sent from one module to another.

All these were implemented in C/C++.

ETE Solutions, Izmir, Turkey – Internship

06/2018 - 08/2018

During my internship here, I have developed backend solutions for the company’s project “nginr”. I implemented in C/C++ and produced linked list and AVL data structures to be used in the backend module. I also implemented helper modules to enable the backend modules to transfer information between each other via TCP/IP socket programming.

Network Security

Databases

WebRTC

TensorRT

TVM

NCNN

RKNN

Web3

LANGUAGES

English: Native

Turkish: Native

EDUCATION

Ege University, Izmir, Turkey

02/2020 - PRESENT

Master of Science in Computer Engineering

GPA: 3.92

Izmir Institute of Technology, Izmir, Turkey

09/2014 - 07/2019

Bachelor of Science in Computer Engineering

GPA: 2.39

Cambridge International College, Sydney, Australia

2013 - 2014

Associate of Science in Information Technology

Arthur Phillip High School, Sydney, Australia

2009 -2013

Chester Hill Intensive English Centre, Sydney, Australia

2009

CERTIFICATIONS

NSE 2 Network Security Associate

Fortinet

05/2020 - 05/2022

Credential ID: y1TPlhL6ic

Credential URL:

https://training.fortinet.com/mod/customcert/verify_certificate.php

NSE 1 Network Security Associate

Fortinet

04/2020 - 04/2022

Credential ID: X95DHO4AIN

Credential URL:

https://training.fortinet.com/mod/customcert/verify_certificate.php

PROJECTS

SourceCall - 09/2019 - 09/2020

SourceCall is an evolution of video calling services. It allows celebrities and professionals to charge for their time, creating a new medium for advertisers and social impact projects. SourceCall makes transactions between its users more efficient and transparent. SourceCall has custom video calling solution and payment processing which allows users to earn money in exchange for their services.

<http://sourcecall.com/>

cdem - 09/2019 - 12/2019

cdem is a macOS application for discrete element modeling of geological structures and their associated deformation in two dimensions (2D).

<https://thecdem.com/>

BT Drift - 09/2019 - 10/2019

This is a website portal for constructors, architects, brokers and workers where they can log in to the website to see confidential information about their current and past projects. They can also share photos and files by using this website.

nginr - 08/2018 - 09/2019

The nginr C2 & ISR Fusion System is a multidomain (i.e., land, air, maritime, space and cyber domains) and dual purpose (i.e., both defense and civilian security/safety) system. It processes big data collected by various ISR sources, including measurement, signature, open source intelligence and surveillance, retrieves information by using innovative artificial intelligence techniques, and fuses the retrieved information into a noSQL knowledgebase.

<https://www.dataunitor.com/nginr>

Product Authentication Blockchain - 09/2018 - 05/2019

This is my thesis project. Blockchain based product authentication system is a very new and promising concept that enables all parts like producers, retailers and consumers to benefit from this. IBM's Hyperledger Fabric, Go, Docker, CouchDB and JavaScript are used in this project.

I was awarded first place with this project in GBYF 2019.

http://gbyf.org.tr/GBYF2019_Kazananlar.pdf