



Ozgun GIZLENCI

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WORK EXPERIENCE

Computer Vision Engineer

HELLO LLAMA AI [05/09/2021 – Current]

City: Los Angeles | **Country:** United States

- Radar unit test and application development.
- Developed and tested vision algorithms to detect the objects, and their orientation relative to their location
- Developed applications to acquire images from a fleet and write algorithms to process them and give insights to customers
- Did deploy the applications on the cloud (AWS)
- Developed and tested vision algorithms to detect objects, and their orientation relative to their location in real-time on a mobile device
- Developed and tested algorithms to use computer vision running on edge to help in perception and navigation
- Setup machine learning infrastructure to analyze videos and to construct CNN models
- Developed and tested vision algorithms to control robots and advanced hardware systems created for the autonomous movement of the robot

Data Scientist

A-LabInsider [09/04/2021 – 23/07/2021]

City: Berlin | **Country:** Germany

- Executed several data scraping projects.
- Conducted data analysis to understand the business needs and requirements to integrate into the existing app
- Used Selenium and BeautifulSoup Python libraries to extract desired data from a given reference site in an automated way
- Reverse-engineered web Technologies like JSON to manipulate and provide organized big data.
- Integrated search algorithm through Google Scholar to React app with Flask framework of Python.

Software Engineer/Analyst

Ems Electronic & Medical Systems Inc. [12/06/2019 – 04/06/2021]

City: Istanbul | **Country:** Türkiye

- Assisted team members with building an e-commerce website for high-end clients
- Successfully generated back-end programming utilizing Apache, PHP 5, CSS, JavaScript, and MySQL frameworks
- Created e-commerce sites integrated with Iyzico payment API's
- Provided leadership as a subject matter expert (SME) on hosting issues, client and staff logins, and general upgrades/maintenance of servers
- Implemented new C# class library for the SQL server database Access layer, and updated previous web page frameworks

Game Engineer

Peaksel D. O. O. [01/06/2018 – 28/08/2018]

City: Nis | Country: Serbia

- Programmed and tested 20 levels of the Biology room of the “100 DOORS” game using Unity and C# and communicated with supervisors to ensure that the company's goals and requirements were met.
- Ensure stability and performance of the game on different platforms.
- Analyze existing code and propose efficient solutions.
- Collaborated with colleagues on the constant improvement of the game development process to maximize efficiency.
- Pre-tested game levels, completed code reviews, managed documentation, supervised multiple Software Interns and performed other tasks as assigned.

Students assistant

Çukurova University, Innovative & Computerized Apparatus Design Lab. [09/11/2017 – 04/02/2018]

City: Adana | Country: Türkiye

Advised and tutored up to 4 students at a time in C programming and Arduino. A lot of projects are done: roller blind controlled automatically by the microprocessor via Nema Stepper Motor (Sensitive to daylight), RFID card reader key system, temperature applications with LCD control, light following robot, etc...

EDUCATION AND TRAINING

Master of Science in Computer Science with Artificial Intelligence

Keele University [04/01/2021 – 16/03/2023]

City: Staffordshire | Country: United Kingdom | Website: <https://keele.ac.uk/>

Bachelor of Science in Computer Engineering

Çukurova University [2015 – 2020]

City: Adana | Country: Türkiye | Website: <https://www.cu.edu.tr/>

| English Preparation Education

Anadolu University [18/06/2014 – 14/06/2015]

City: Eskişehir | Country: Türkiye | Website: <https://www.anadolu.edu.tr/>

LANGUAGE SKILLS

Mother tongue(s): Turkish

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

German

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

Italian

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

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

DIGITAL SKILLS

Python / Computer Vision ML, DL, AI, MicroPython C C++ UNIX Python / SQL, C# Unity3D Linux PHP HTML&CSS
Bootstrap / Embedded Systems MQTT Protocol Vision Algorithms EV Firmware Development, / TCP/UDP Road-
Sidewalk- Detection Helmet Detection / Dual Rider Detection Parking Validation / UART Communication
WebRTC Streaming Teleoperation Control Recommender System / Arduino Raspberry Maixduino Jetson NANO
ESP32 / Unit Testing, FirmwareTesting ML Pipeline Firmw. Pipeline

PROJECTS

[03/2023 - 03/2023]

Building a Low-Cost Helmet Detection Device For User Safety | M.Sc. ·This project aims to develop a low-cost helmet detection device to enhance user safety. By training various models with different sensors and evaluating performance metrics, the project seeks to create a high-accuracy device that encourages users to wear helmets. The developed device can detect helmets in real-time under various environmental conditions. This AI-based product is applicable not only for light electric vehicles but also in industries, construction sites, and sports, contributing to overall safety advancements. The project is a significant step towards promoting helmet usage and preventing potential accidents. This dissertation has been accepted for publication, recognizing its contribution to the field.

[2024]

LLAMA Radar & Defender ·In this project, I developed the LLama Defender & Radar products software, which utilize the K-LD7 radar to detect incoming hazards for drivers. The software cleans the incoming data and collects it in a cluster, providing warnings during dangerous situations based on the signal frequency and cluster results. The product consists of two parts and includes features such as Blind Spot Warning, Rear Collision Warning, Motion Tracking Forward Collision Warning, and Sudden Obstacle Warning.

[2023]

LLAMA Eye Write here the description...At LLamaEye, the primary goal was to develop and market a product from scratch that performs parking validations and road & sidewalk detections for light electric vehicle mobility devices. Under my leadership, the project was developed utilizing tools such as MQTT, providing fleet control. Communication between the vehicle's battery and the created product was established using UART protocol and CAN BUS, facilitating necessary data transfer. Additionally, unit tests and custom firmware were developed for the product. A pipeline was created for the required road, sidewalk, and parking validation models, allowing for automatic production based on user-generated data. Firmware, model, and product (hardware) versioning were implemented for traceability.

Jumpwatts Teleoperation & WebRTC Stream ·During my time at Jumpwatts, I developed a teleoperation control system for delivery robots. Utilizing Robotic OS, I created an interface on the device that allowed access via an open port. Through this access, I established a WebRTC stream from the device, enabling remote directional control. The system was also made applicable and utilized for other mobility vehicles, and adapted to suit necessary EV vehicles.

[2024]

Retrieval Augmented Generation For Large Language Model ·In this project, aimed at scientific researchers using LLM rag, PDFs were uploaded to allow users to access necessary passages and ask relevant questions using the required language model. The system was tested with 100 articles. The loaded text was chunked into 1000 characters and vectorized to prepare a local database with ChromaDB. Once the data was stored, a semantic search was conducted to retrieve similar chunks for generating appropriate responses with LLM. Necessary prompts were provided to LLM to gather answers required for article search. As the OpenAI API has a credit limit, Gemini Pro was used as LLM, and the pipeline was successfully demonstrated.

[2020]

Machine Learning Prediction of Custom Variables by Using Linear Regression with Covid-19 Turkey

Dataset ·In this project, the main purpose is to find out the linear function which represents the relationship between dependent and independent variables. I found the estimated values associated with minimum error values. Hence, the second purpose was modelling the relationship between variables. Machine Learning modelling means a description of a system using mathematical concepts and language. The model did help to explain the system and to study the effects of different components, and make predictions about variables.

[2020]

Text Generation by Using Recurrent Neural Networks with Shakespeare Plays Dataset Write here the description...The main purpose of the text generation project is to set up a new text generator with a Recurrent Neural Network and train that system to create a new play exactly like Shakespeare's way. Text generation is a popular problem in Data Science and Machine Learning, and it is a suitable task for Recurrent Neural Networks. This study uses the Tensorflow library to build an RNN text generator and builds a high-level Application Programming Interface. The study has three main parts Dataset, RNN Text Generator, and Model Selector. First, you read the data(text) and process the text then vectorize it. After you build the model to train it. Configure the checkpoints and execute the training. Finally, you generate the text and restore the checkpoints.

[2020]

Flappy Survivors Game ·Flappy Survivors is an arcade game designed and developed by me. It has 3 different levels inside and 10 different G.O.T. characters implemented with the coin in-app purchase system. The game is available at theGoogle Play Store.

·<https://play.google.com/store/apps/details?id=com.gamebull.flappyhead>

[2020]

Solar System with Self-Made Led Projectors ·After researched and gained information about solar systems, I decided to make it from scratch with self-made LED lamps, solar panels. Charge capacity is up to 8 hours.

[2016]

Solar Panel Production From Solar Cells ·Self-made with solar cells and epoxy resin. The rated terminal voltage of 380 Volt solar panel.

HONOURS AND AWARDS

[2023] Keele University

Distinction Completed M.Sc. with distinction at Keele University. 4.00 GPA

[2020] Çukurova University

Certification of Honor Senior term completed with Honor

CERTIFICATIONS

[2023]

Design Patterns

Awarded by Coursera

Link: <https://www.coursera.org/account/accomplishments/certificate/9S4QSUAFEK2M>

[2023]

Object Oriented Design

Awarded by Coursera

Link: <https://www.coursera.org/account/accomplishments/certificate/KTVRG27RHZ32>

[2022]

Math for AI and Data Science

Write here the description...

Intro to Data Science

Machine Learning with Python

PHP Back-end Development

Business Management

General Accounting

Sales and Marketing

Financial Management

CONFERENCES AND SEMINARS

[2017] Adana

Cyber Security Event (IEEE)

[2016] İstanbul

Google Developer Group DevFest Season

[2017] Adana

Google Developer Group DevFest Season

[2018] Mersin

Google Developer Group DevFest Season

[2018] Adana

Software and Tech Event