

# Omer Gursoy

LinkedIn GitHub

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## EDUCATION

### Marlborough College

Sep 2019 – Ongoing

- Senior Student / Anticipated Graduation: June 2023
- **A Levels:** Maths, Further Maths, Spanish, Economics
- **IGCSEs:** Biology, English Literature, Maths, Physics, English Language, Computer Science, Design and Technology, Spanish, Latin, Religious Studies, Chemistry

## EXPERIENCE

### TAZI.AI: Machine Learning AI Software Developer

Jul 2022

- Examined all the different departments of the company from back-end and front-end developing teams to managerial, customer service and advertising teams, communicated with members from each team and familiarised myself with their responsibilities
- Studied the pandas Python library and the way it is used in machine learning algorithms by getting hands-on beginner-level experience writing code under the supervision of experts in the field
- Assessed the communications department with the English script translations of their video content

### Sevan Bicakci Couture Jewellery Atelier

Two weeks per Summer between 2016 – 2020

#### Apprentice

- Apprenticed at the atelier for five summers, starting from menial jobs and moving up to basic administrative work and sales for the duration of my employment
- Served clients at the store to facilitate customer satisfaction and connection, mopped and cleaned the workshop and did small but critical errands such as moving jewellery pieces around the workshop safely whilst being crafted for the first two summers of my apprenticeship
- Observed and participated in client-salesman negotiations for the following two summers of my apprenticeship
- Inventoried each different piece of jewellery in different stores across Istanbul and Miami, following up with each of their manufacturing stages

## ACADEMIC ENRICHMENT ACTIVITIES

### Guided Inquiry: Mathematics Behind Machine Learning and AlphaZero

May 2022 – Jun 2022

- Took the initiative to conduct research on a topic that intersects with three areas that fascinate me deeply: mathematics, data science and machine learning
- Evaluated the basics and types of machine learning paradigms, drawing from Cornell and Berkley Universities' work in the field as my primary sources
- Investigated the history of the AlphaZero computer program and one of its key aspects, deep neural networks
- Explored the basics of deep learning as used by AlphaZero and other ML programs based around deep neural networks

### UKMT Intermediate Mathematical Challenge

Nov 2021

- Awarded with a Bronze level certificate by the United Kingdom Mathematics Trust

### Tech in Finance Workshop

Mar 2021

- Participated in a one-day workshop organised by Skills Gap on the topic of how advanced use of technology is driving change and competition in the finance industry, taught by data scientist Moideen Kalladi

### British Physics Olympiad Intermediate Physics Challenge

Mar 2021

- Awarded with a Bronze Medal by the British Physics Olympiad organised by the Physics Department of the University of Oxford

## LEADERSHIP SKILLS

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### Knowledge Exchange: Machine Learning Tech for Couture Jewellery Design Theft Detection Sep – Oct 2022

- Identified a possible way machine learning technology can be used in the couture jewellery sector using my past apprenticeship experience and sector connections
- Collaborated with a data scientist to investigate current uses of visual search algorithms in the jewellery and larger fashion sector
- Composed an entrepreneurial proposal for how a visual search algorithm can be coded and taught with deep neural networks to detect couture jewellery design theft
- Presented the proposal to the Turkish Jewellery Exporters' Association and received appreciation for my support for the protection of artists working on this timeless art form
- Had the proposal published on the websites of both the Jewellery Exporters' Association and the Istanbul Chamber of Jewelry

### Tennis Captain 2022

- Directed team members during group matches on where or to whom to serve to score crucial points depending on their and our opponents' abilities as well as players' mental states
- Provided emotional support for my fellow team members through rough spots during our training and matches with other teams

## SOCIAL RESPONSIBILITY PROJECTS

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### Volunteering Member of the YGA Jun 2021 – Jun 2022

- YGA is a Turkish non-governmental and non-profit organization that, among many other humanitarian pursuits, seeks to incentivise younger generations to discover and enjoy science and innovation
- Instructed young children on how to build autonomous cars and mechanical hands with YGA's Twin Science Kits to nurture their interest in science and engineering through play
- Used recycled plastic to construct planters and a water filtration system for green gardening

### Volunteer for the Hayata Renk Ver project SOSDES Jul – Aug 2021

- Visited hospitalised children due to chronic sickness; entertained them through conversation & taught emotional expression and social skills
- Entertained them through conversation in an effort to teach them emotional expression and social skills

## SKILLS AND HOBBIES

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- **Technical:** Python (Beginner); Microsoft Office (Word, Excel, PowerPoint, Teams)
- **Language:** Turkish (Native), English (C2), Spanish (B1), Latin (A2)