

# Omer Gursoy

LinkedIn GitHub

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## EDUCATION

### Carnegie Mellon University, Pittsburgh, Pennsylvania, USA

Aug 2023 – Ongoing

- Sophomore Student | Information Systems BSc, Minor in Machine Learning

### Marlborough College, Wiltshire, England, UK

- A-levels: Mathematics, Further Mathematics, Economics, and Spanish

## INTERNSHIP EXPERIENCE

### Sevan Bicakci Couture Jewellery Atelier

During summers between 2016 – Ongoing

Istanbul, Turkiye

- Assist in transitioning to CANIAS ERP for building a digital database by extracting data from non-digital records to Excel and coordinating between the technical and non-technical executives in the project
- Design a 4-year development plan for optimising inventory management using automation with ML
- Apprenticed at the atelier between summers of 2016 and 2022, doing basic administrative work, assisting in sales and inventorying jewellery pieces in different stores across Istanbul and Miami

### NGN

Jul – Aug 2024

Istanbul, Turkiye

- Set up Greenbone Vulnerability Management software to test the Ubuntu server's security by using docker and earned experience in starting, managing, and hardening servers in the cloud against malicious hackers
- Researched computer networks, ranging from hardware components to how computer systems work

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

Jul 2022

Istanbul, Turkiye

- Trained in writing machine learning algorithms using the pandas Python library under supervision of experts
- Assessed the communications department with the English script translations of their video content

## ACADEMIC ENRICHMENT AND LEADERSHIP SKILLS

### Knowledge Exchange: Machine Learning Tech for Couture Jewellery Design Theft Detection

Sep – Oct 2022

- Collaborated with a data scientist to compose 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 had the proposal published on the websites of both the Jewellery Exporters' Association and the Istanbul Chamber of Jewellery

### Hack112: 1-Day Hackathon

Apr 2023

- Conceptualised and wrote a quantitative analysis algorithm in Python based on the Black-Scholes model alongside three teammates within 14 hours, aiming to model stock tickers, options and contracts by web scraping Yahoo Finance to find the optimal call price based on time until maturity
- Built a UX-friendly interface and designed the future projection output to be legible to any user through a 3D Black-Scholes model with call price, stock price and time axes and a 2D line graph with just stock and call prices as axes using the matplotlib library

## SKILLS, HOBBIES AND AWARDS

- Technical:** Python, HTML, CSS, JavaScript, SQL, PhpMyAdmin, Bash, Linux  
Microsoft Office (Word, Excel, PowerPoint, Teams)
- Language:** Turkish (Native), English (Advanced), Spanish (Beginner), Latin (Beginner)
- Interests:** Tennis (Was tennis captain at Marlborough College), Soccer
- Medals:** UKMT Intermediate Mathematical Challenge (Bronze - 2021)  
British Physics Olympiad Intermediate Physics Challenge (Bronze - 2021)

Open GitHub Link: <https://omergursoy04.github.io/portfolio/>