Cem Yılmaz

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Personal Profile

I am a fresh University of Warwick graduate who has just completed the BSc Computer Science programme. My interest lies in web development technologies, algorithms, artificial intelligence, machine learning and data science. My project colleagues have commonly described me as enthusiastic, hard-working, and organised. I am also honest and flexible. Over my time at the university, I have developed and integrated comprehensive websites, databases and software, compiled and authored a detailed cumulative 200-page technical reports in LaTeX, and unified all individual components into a cohesive final software in various projects, enhancing system efficiency. I am also a citizen of the European Union.

Education

University of Warwick *Coventry, United Kingdom*
BSc Computer Science *Sep 2021 - Jul 2024*
- Achieved Lower-Second Class Honours
- **Optional Modules Taken:** Neural Computing, Web Development Technologies, Cyber Security, Artificial Intelligence, etc.

British International School Istanbul *İstanbul, Türkiye*
International Baccalaureate Diploma *May 2016 - May 2020*
- Graduated with a score of 43 out of 45
- Awarded the "Director's Award" - selected for being most outstanding all-round student

University Projects

Project Risk Analysis *Coventry, United Kingdom*
University of Warwick *Jan 2023 - Mar 2023*
- Deutsche Bank requested us to develop a system that will aid in the monitoring of software projects and provide early warning if the project looks like it might be at risk of failure.
- Development of a website with an integrated database and a machine learning system to calculate the risk.
- Developed and integrated a comprehensive website, database and a machine learning system, compiled and authored a detailed technical report in LaTeX, and unified all individual components into a cohesive final software, enhancing system efficiency.
- **Technical Skills:** Python, LaTeX, Vim, HTML/CSS, Flask, SQL, Pandas, Git.
- **Soft Skills:** Research, Logical Thinking, Critical Thinking, Time Management, Teamwork, Problem-solving, Presentation skills, Report writing.

Developing AI-based tumor detection techniques for CT Scans of Lungs *Coventry, United Kingdom*
University of Warwick *Sep 2023 - Current*
- Final year dissertation.
- In cooperation with Vesnet Medical JSC and Dr. Ligang He.
- Developed of a script that translates medical images into readable format for AI training.
- Utilisation of Machine Learning, Neural Computing and Deep Learning methods
- Developed and trained a deep learning solution for the classification problem, with numerous optimisations for balanced and accurate training with final accuracy of 98.4%. Compiled and authored a comprehensive 76-page report.
- **Technical Skills:** Python, Pandas, TensorFlow, PyTorch, MatPlotLib, Git.
- **Soft Skills:** Logical Thinking, Problem-Solving, Report writing, Presentation skills, Time Management, Research, Critical Thinking

Robot Maze Solver *Coventry, United Kingdom*
University of Warwick *Nov 2021 - Dec 2021*
- Using the framework provided by the university, the goal was to create a robot that would efficiently solve a randomly generated maze.
- Implementation of backtracking algorithm to solve regular non-loopy mazes.
- Implementation of a custom modified local minimal backtracking algorithm to solve loopy mazes.
- **Technical Skills:** Java.
- **Soft Skills:** Logical Thinking, Problem-solving.

Hurdle *Coventry, United Kingdom*
University of Warwick *Jan 2022 - Feb 2022*
- Creation of an automatic wordle solver using Haskell.
- The program was implemented to read a list of 5 letter words from a txt file.
- Implemented custom logic to eliminate list of impossible words to finally arrive at the correct answer 100% of the time.
- The algorithm ran an average of approximately 3.7 guesses before reaching the final answer.
- **Technical Skills:** Haskell.
- **Soft Skills:** Logical Thinking, Problem-Solving.

Personal Projects

Personal Website

https://cemyilmaz.tech   *Nov 2021 - Dec 2021*

- Development of a personal website and a blog using HTML/CSS, JavaScript, and Flask from scratch
- **Technical Skills:** Python, HTML/CSS, JavaScript, Nginx, SQL, Git.
- **Soft Skills:** Problem-solving, Logical Thinking.

Content Administrator

WarwickCS   *Mar 2023 - May 2024*

- Discord management and content administrator for WarwickCS, a university society.
- Creation and documentation of an automated ELO bot for balanced matches between teams, storing statistics, and ranking players
- Currently working on a new bot that will reveal various beginner friendly and professional-use tactics for players in the society.
- Organisation of various events to keep engagement within the community.
- Creation of custom videos and guides to assist every team in the society.
- **Technical Skills:** Python, DiscordPy, Git.
- **Soft Skills:** Presentation skills, Leadership, Teamwork, Logical Thinking, Report Writing.

Advanced Note-Taking using VimTeX

Public Benefit   *Sep 2021 - Jun 2024*

- Custom note taking environment made using Vim, PDFTeX and Python scripting for efficiency
- Highly detailed notes shared with the public
- Notes exist for every module I have taken in my GitHub public repositories.
- **Technical Skills:** Python, Vim, LaTeX, Git.
- **Soft Skills:** Report Writing.

Skills

Programming	Python (SQLAlchemy, Flask, Pandas, MatPlotLib, PyTorch, etc.), HTML/CSS, JavaScript, SQL, C, Java, JavaCC, Haskell, Hadoop, Matlab.
Miscellaneous	Linux, Shell (Bash/Zsh), LaTeX(VimTeX/Overleaf), Microsoft Office, Git.
Soft Skills	Time Management, Teamwork, Problem-solving, Documentation.

Interests

Tutoring	I have tutored numerous students on various courses such as mathematics, computer science, etc. since high school.
Gaming	I mostly play a team based 5 versus 5 first-person shooter. I have achieved ELO of 3500, which is top 100 in the UK.

Languages

English	Native proficiency
Turkish	Native proficiency
Russian	Professional proficiency
Spanish	Intermediate proficiency