Oguz Tecirlioglu

Phone: +447340467165 | **Email**: tecirliogluoguz@gmail.com

Education

MSc Software Systems - University of Bath, United Kingdom (2021-2023)

- Relevant modules include:
  - Software Engineering, Data Structures & Algorithms, Cryptography, Functional Programming, Networking

BEng Aerospace Engineering - University of Manchester, United Kingdom (2018-2021)

- Achieved First class honours.
- Dissertation subject: Structural Analysis of Scaled Models Using Deep-Learning (Grade 83%)
  - Received offer to co-author publication of findings.

Bilkent Laboratories and International School

- Completed the International Baccalaureate Higher Level: Mathematics **(6/7)**, Physics **(6/7)** Economics **(6/7)**
- IGCSE: Mathematics **(A*)**, Sciences [Physics, Chemistry, Biology] – Double Award **(AA)**
- SAT Math: **800/800**, SAT Math Level 2: **800/800**

Work Experience

Software Developer, SISKON Software & Automation (July – September 2021)

- Coded the Front-End and Back-End of a web application used by a client with revenue of $20 Billion.
- Refactored front-end code, improving its design, reusability, and readability.
- Led the team of 4 other interns in an agile fashion; work done in sprints, with regular team retrospectives, daily stand-ups, and feedback sessions with other team leaders.
- **Tech stack used:** React Redux, SQL, SAP Workbench (for the API), Git, Microsoft Azure.

Quality Engineering, Japan Tobacco International (JTI) (August - Sept 2019)

- Carried out root cause analysis of manufacturing errors of machines and presented findings to Senior Engineers.

Projects

CS50 Finance – Developer

- Developed a brokerage web application that allows users to create their own accounts, view the shares they own in their stock portfolio, and simulate buying and selling shares at current prices (storing all information on database).
- **Technology used:** Python (Flask), HTML, CSS, SQLite3, IEX Cloud API.

Sorting Algorithms Visualiser – Developer

- Created an application which visually displays the algorithms: Bubble Sort, Quick Sort, and Merge Sort.
- **Technology used:** C++ (tried to adhere to modern C++), SFML (Simple and Fast Multimedia Library).

Deep-Learning for Scaled Structural Analysis (Final Year Project)

- Developed a DNN model that optimises the prediction of plastic deformation in scaled models, improving accuracy of predictions from 30% to 0.5%.
- **Technology used:** TensorFlow, Keras, NumPy, and linked ANSYS with Python.

Skills

- *Programming languages:* Java, Python, C, C++ (modern C++), HTML, CSS, SQL, SQLite, JavaScript.
- *Tools:* React, Git, GitHub, VS Code, SFML, TensorFlow.
- *Languages*: English, Turkish, Spanish, Serbian.

Extracurriculars and Activities

- PASS (Peer Assisted Study Sessions) leader at the University of Manchester Aerospace Engineering.
- Hyperloop Society Structural Design Engineer (UOM): designed outer shell of a scaled model of a hyperloop train.
- Captain of the basketball team in high school.