Oguz Tecirlioglu

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Education

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

- Specialised master's in computer science, focused on software engineering. Relevant modules include:
  - Software Engineering, Parallel Computing, Safety Critical Systems, Cryptography, Reinforcement Learning, Networking

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

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

Bilkent Laboratories and International School (2015 – 2018)

- 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

SISKON Software & Automation - Software Developer (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 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. Quickly understood and explained code base to other interns.
- **Technology used:** React Redux, SQL, SAP Workbench (for the API), Git, Microsoft Azure.

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

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

Projects

Sorting and Pathfinding Algorithms Visualiser – Software Developer

- Created an application which visually displays: Bubble Sort, Quick Sort, Merge Sort, and Dijkstra's Algorithm.
- **Technology used:** C++, SFML (Simple and Fast Multimedia Library, a C++ library).

CS50 Finance – Software 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.

Deep-Learning for Scaled Structural Analysis - Final Year Project for Bachelors

- 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.

Technical Skills & Languages

- *Programming languages:* C++, Java, Python, C, JavaScript, React.js, CSS, SQL, SQLite.
- *Tools:* Git, GitHub, SFML, TensorFlow, Keras, NumPy, VS Code, Visual Studio, SSMS.
- *Languages*: English (Fluent), Turkish (Native), Spanish (A2), Serbian (Basic).

Extracurriculars, Leadership and Activities

- **PASS** (Peer Assisted Study Sessions) **Leader** at the University of Manchester Aerospace Engineering.
- University of Bath **academic representative** for MSc Software Systems.
- **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 – I enjoy outdoor activities such as hiking and running.