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THEODOR BAUR

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EMPLOYMENT

Software Development Intern	Global Aerospace Insurance	Summer 2023, Winter 2023/24, Summer 2024

- Worked within the internal IT development department, focusing on the **Global Aerospace Banks Project**.
- Developed, tested, and maintained software to be used by underwriters to optimise the input, management, and presentation of aircraft fleet data from insurance policies.
- Collaborated with stakeholders within the IT development and underwriting department to refine the evolving project requirements.

Vaccinator	Alliance for Better Care	Summer 2021, Winter 2021/22

- Administered COVID vaccines as part of a clinical team, under the guidance of health professionals.
- Proactively transitioned from an administrative role to a vaccinator role, taking on increased responsibility.

EDUCATION

Cardiff	Cardiff University	September 2021 - September 2025

- **MSc in Artificial Intelligence (Expected)** (September 2024 – September 2025).
  - Modules: Knowledge Representation; Automated Reasoning; Principles of Machine Learning; Computer Vision; Natural Language Processing.
- **BSc in Computer Science** (September 2021 – June 2024) - First-Class Honours (1:1)
  - Modules: Web Applications; Object Oriented Programming; Group Project; Data Processing and Visualisation; Computational Mathematics; Database Systems; Scientific Computing; Combinatorial Optimisation.

TECHNICAL EXPERIENCE

Projects

- **Global Aerospace Banks Project** (2023 - 2024)
  - Developed internal system to optimise the input, management, and presentation of aircraft fleet data from insurance policies held by banks.
  - Created an interface to input and normalize unformatted policy data sent by banks, storing it in an internal database using **Visual Basic** and **SQL**.
  - Created automated, interactive data analysis reports using **PowerBI**, integrated with the internal database via **SQL**, allowing for data projections, filtering, and policy comparisons.
- **Automated Fact Checker** (2024) - A final year project for **BSc Computer Science** utilising various NLP techniques to automatically retrieve and verify evidence from the FEVER dataset for any given factual claim and assess its veracity. Custom BERT models were trained to assess the relevancy of passages and the final system was ported into a web-application. Final Mark: 84%. (Hugging Face, Elasticsearch, Python, HTML, CSS, JavaScript, Git)
- **AI Playlist Name Generator** (2023) - A website that uses Apple Music and OpenAI APIs to generate curated playlist names for Apple Music playlists based on their songs using GPT-3.5. (Flask, Python, HTML, CSS, JavaScript, Git)
- **Rate My Student Home** (2023 - 2024) - A website designed to let Cardiff University students rate their student houses and letting agents. (Flask, Python, HTML, CSS, JavaScript, SQLite, Git)
- **Tool Sharing Website** (2022) - A group project website that allows community members to rent tools with a deposit system via the Stripe API and includes an interactive map using the Google Maps API. (Flask, Python, HTML, CSS, JavaScript, SQLite, Git)

LANGUAGES AND TECHNOLOGIES

- Programming Languages: Python, Java, JavaScript, MATLAB, Visual Basic, VBA
- Data Science and Analysis Tools: NumPy, Pandas, Matplotlib, Power BI, Excel, Scikit-Learn
- Database Technologies: SQL, SQLite, MongoDB, Neo4J, Elasticsearch
- Web Development: Flask, HTML, CSS
- Other Libraries/Tools: Git, Hugging Face