

# ANSON GEORGE

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<https://ansongeo.github.io/portfolio/> 

## TECHNICAL SKILLS

Programming Languages: Python, R, Java, C++, OCaml Database: MySQL, Firestore, Neo4j Libraries: scikit-learn, TensorFlow, NumPy, Pandas, Matplotlib, OpenCV Web Technologies: HTML, CSS, Javascript, React.js Tools: Git, VS Code, Tableau, Power BI, AWS, Canva, Microsoft Office Project Management: Agile Methodology Collaboration and Communication Tools: Slack, Microsoft Teams, Zoom

## EDUCATION

Master of Science in Computer Science & Systems (Data Science)	University of Washington	Sep 2025 – Jun 2027
Bachelor of Science (Hons), Computer Science (Artificial Intelligence)	Heriot-Watt University	Grade: 3.95/4.0 Grade: First Class Honours (1:1)

## EXPERIENCE

IT Intern at TLS IT Solutions, Dubai	May 2024 - June 2024
<ul style="list-style-type: none"><li>Deployed and provisioned 12+ systems end-to-end, including OS installation, driver setup, and software validation.</li><li>Diagnosed and resolved hardware/software issues across three storage devices and two printers, using root-cause analysis, ensuring reliable system performance and minimal user downtime.</li><li>Improved operational efficiency by documenting repeatable setup and troubleshooting processes, increasing consistency and speeding up issue resolution for common incidents.</li></ul>	
Deloitte Australia Data Analytics Job Simulation on Forage	June 2025
British Airways Data Science Job Simulation on Forage	July 2024

## JOB SIMULATIONS

Deloitte Australia Data Analytics Job Simulation on Forage	June 2025
<ul style="list-style-type: none"><li>Designed two interactive Tableau dashboards to present data-driven insights.</li><li>Performed data cleaning, classification, and exploratory analysis in Excel, translating raw datasets into actionable business conclusions.</li></ul>	
British Airways Data Science Job Simulation on Forage	July 2024
<ul style="list-style-type: none"><li>Collected and analyzed 1,000 customer reviews using web scraping and NLP preprocessing to extract sentiment and key themes.</li><li>Developed a predictive machine learning model to identify top 10 factors influencing customer purchasing behavior.</li></ul>	

## PROJECTS

### Social Media User Profiling

Python, TensorFlow, scikit-learn, CNNs, NLP, Ensemble Models

- Designed a multi-modal machine learning system to predict age, gender, and Big Five personality traits from social media text, profile images, and page likes. Applied NLP feature extraction, CNN transfer learning for images, and ensemble learning to fuse heterogeneous models. Improved prediction accuracy by 40% over baseline ML model.

### Text Classification of Amazon Food Reviews

Python, scikit-learn, PyTorch, BERT, Transformers, NLP

- Built and evaluated ML, deep learning, and Transformer-based models to predict 1-5 star ratings from Amazon food reviews. Implemented multiple preprocessing pipelines including tokenization, normalization, TF-IDF, Word2Vec, and BERT embeddings, with extensive hyperparameter tuning.

### Company Reputation Analysis: OpenAI

Python, NLP, Sentiment Analysis, Generative AI, Topic Modeling, Clustering

- Conducted large-scale sentiment analysis on Reddit comments (200K) to assess OpenAI's brand perception and product feedback. Built an end-to-end text analytics pipeline for data scraping, preprocessing, feature representation, polarity classification, and topic clustering. Identified dominant discussion themes influencing positive and negative sentiment.

### Diabetes Prediction using Machine Learning

Python, TensorFlow, CNNs, scikit-learn, EDA, Medical Imaging, Computer Vision

- Developed supervised ML models to predict diabetes from two clinical datasets using feature engineering, clustering, and model evaluation techniques. Built a CNN-based image classification model to detect diabetic retinopathy stages from 38K retinal images. Assessed model performance using standard classification metrics and cross-model comparisons.

### Co-lab

React.js, Node.js, Firebase, Real-Time System, Product Life Cycle

- Designed and deployed a real-time collaborative web application using React.js, Node.js, and Firebase. Implemented live multi-user collaboration features including whiteboard interaction, image editing, and shared brainstorming tools.

## ACADEMIC ACHIEVEMENTS

- Deputy Principal's Award (2025, 2024, 2023)
- 2nd in Amazon Food Review Classifier Competition
- Top 10 in ACT28 Hackathon
- Winner of Award for Academic Excellence 2020
- Recipient of Scholar Badge (2019, 2018)

## CERTIFICATIONS

- Delivering Data-Driven Decisions with AWS
- Power BI Essential Training
- Tableau Essential Training
- Machine Learning and AI with Python (HarvardX)
- Introduction to Artificial Intelligence with Python (HarvardX)