Ammar Nagri

+44 7305-975781 | ammar.nagri1@gmail.com | github.com/404-ammar-not-found | linkedin.com/in/ammarnagri | 404-ammar-not-found.github.io/

EDUCATION

The University of Manchester   Sept 2025 — Present
BSc. in Computer Science and Mathematics with Industrial Experience   *Manchester, GB*

WORK EXPERIENCE

Software Engineer - Work Experience   Aug 2022 — Aug 2022
Flyt (Merged into JustEat)   *Farringdon, GB*
- Engineered a production-grade **Go microservice** for real-time order status, designed with OpenAPI specifications and internal tooling
- Developed modular **HTTPHandler** logic for query parsing, database access, and error handling.
- Authored comprehensive unit tests with Go's **httptest**, validating both success and failure execution paths validated end-to-end correctness through **Postman-driven** integration testing

Software Engineer - Work Experience   Oct 2022 — Oct 2022
Ably   *Remote*
- Designed and tested a curl command using **Postman**, which was integrated onto the Ably website.
- Implemented and tested Ably's **REST API** endpoints, feedbacking to development and documentation teams, improving end-to-end API guidance

Software Engineer   Jul 2025 — Aug 2025
studyboost.gg   *Remote*
- Formulated a confidence metric as a **multi-variable** optimisation problem, balancing correctness, efficiency, and difficulty through adaptive weighting, to underpin personalised feedback in the startup's **adaptive learning algorithm**.

PROJECTS

Student Researcher, Big Data: ATLAS   Sept 2023 — June 2024
- Reconstructed the Z^0 boson to calculate its invariant mass through observing its two primary decay routes, using data collected by the ATLAS detector
- Co-authored a research paper and delivered a poster presentation at a London physics conference
- Selected to attend a masterclass by Oxford PhD students, gaining exposure to frontier particle physics analysis methods

Student, Activation Function Effects on Convergence   Aug 2025
- Built reproducible deep learning pipelines in **PyTorch** with deterministic seeding to classify the MNIST dataset
- Designed a modular framework to benchmark different activation function families across **MLP** and **TinyVGG**
- Produced comparative metrics and visualisations for model performance using **matplotlib.pyplot**

Student, LSTM / RFR BTC Price Regression   Dec 2023 — Oct 2024
- Developed **LSTM** and **RFR** models, using **Keras**, on BTC close prices to regress prices under different compute budgets.
- Implemented a custom timing handler to pause model training on demand, enabling control over training duration.
- Produced a 4000 word report outlining the methodology and visualised the results using **matplotlib.pyplot**.

COMPETITIONS

Junior/Intermediate/Senior Mathematics Challenge (Gold)

UKOAI (UK Olympiad in Artificial Intelligence, Silver)

SKILLS

- **Languages**: Python, Java, Golang, Typescript
- **Frameworks**: Tensorflow , Pytorch, NumPy, Pandas, matplotlib, scikit-learn, OpenCV, XGBoost, AWS, FastAPI
- **Spoken Languages**: English, Gujrati, Mandarin (GCSE Level 7), French (IB Level 6)
- **Interests**: Writing and listening to music, Swimming, Football, Rock climbing