

# Isha Ingersol

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**Summary:** First-Class MEng (Hons) graduate with experience in full-stack web development, ML, and cloud computing, and ability to lead scalable solutions through academic, internship, and hackathon projects. Seeking a role to build impactful solutions at scale.

## EDUCATION

### University of Birmingham

Sep 2021 - Jul 2025

MEng Computer Science and Software Engineering | First-Class Honours

- Leadership Experience: Marketing Student Ambassador | Year 3 CS Student Rep | Student Ambassador | Year 2 CS Student Rep
- Honours & Awards: The Birmingham Award | AIESEC Public Speaking Competition: 1st Place

## EXPERIENCE

### Software Engineer Intern

Dec 2023 - Feb 2024

blackNgreen | Remote

- Formulated and developed 20+ AI avatars using generative models, enhancing UI and boosting user engagement by 10%.
- Leveraged multimodal image search with embeddings and vector databases, improving data retrieval efficiency by 15%.
- Mastered GPT and LLMs, including development and 3 optimisation strategies: fine-tuning, RAG, and hybrid approaches.

### Software Engineer Intern

Jul 2023 - Sep 2023

blackNgreen | Remote

- Integrated 3+ core features for an AI assistant using JavaScript XML, TypeScript, and Material UI.
- Improved UX by implementing microphone and file upload features, increasing user interaction and engagement by 25%.

### Partnership Lead - Entrepreneurship World Cup

Jul 2022 - Oct 2022

StartupScale360 FZCO | Dubai, United Arab Emirates

- Streamlined sponsorship management by engaging with 50+ potential sponsors, securing the success of the competition.
- Identified and vetted 25+ promising startups through social media, improving the event's overall competitiveness.
- Delivered 5 strategic presentations to the Steering Committee, reducing meeting time by 25%.

## PROJECTS

### DyscoverAI: Learning Disability Detection Made Easy

Mar 2025

- Developed a full-stack system with deep learning models to detect 2+ learning disabilities, including dyslexia and dysgraphia.
- Engineered a MobileNetV2 ML model for dyslexia with dataset balancing and threshold adjustments, resulting in 89% accuracy.
- Designed a dysgraphia classification pipeline using SVMs with 97% accuracy, enhancing reliability in early detection.

### AtkinsRéalis HackaFuture 2025

Feb 2025

- Awarded 5th place out of 20 teams for building a solution to enhance robotic operations in the nuclear industry.
- Boosted localisation accuracy in traditional SLAM models by 64.4% using a Gated Recurrent Unit (GRU) in MATLAB.
- Augmented high-risk human operations, such as hazard detection, by 75%, using RoboFlow API and OpenCV.

### British Airways Data Science Job Simulation

Feb 2025

- Scraped and analysed 1,000+ customer reviews to identify sentiment (positive, negative, or neutral) with 93% accuracy.
- Engineered a predictive model with 97% accuracy to understand factors influencing buying behaviour.

### PetMate: Connecting Pet-Owners with Pet-Sitters

May 2023

- Designed a user-friendly registration system and responsive interface using pair programming, increasing registrations by 20%.
- Leveraged JavaScript, HTML, CSS, AngularJS, SQL, Figma, and Git to build a full stack web app, earning a 4.5-star average rating.

## CERTIFICATIONS

**BCG X:** Data Science Job Simulation | **JPMorgan Chase:** Software Engineering Lite Virtual Experience Program | **NVIDIA:** Fundamentals of Deep Learning | **Microsoft Azure AI:** NLP and Computer Vision | **Google:** The Fundamentals of Digital Marketing

## SKILLS

**Programming Languages & Databases:** Java, Python, TypeScript, SQL, MongoDB | **Frameworks & Libraries:** TensorFlow, PyTorch, Keras, Scikit-learn, NumPy, Pandas | **Frontend & Styling:** Tailwind CSS, Bootstrap, ReactJS | **Backend, Tools & Platforms:** Postman, Docker, Git/GitHub | **Data:** Data Analysis, Business Analytics, Tableau, Learn PowerBI, Advanced MS Excel