

AILIN YU

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SUMMARY

- **Self-motivated, innovative Computer Science postgraduate student**, with hands-on experience in building AI-powered web applications, including RAG-based scientific summarizers and multilingual voice-assisted tools using APIs. Proven ability to manage data storage, data prediction, and generate workflows in large scale projects in tech and art industry across UK and China in Agile environments.
- **Technical Skills:** Programming Languages: Python, JavaScript, C, HTML, CSS | Frameworks & Libraries: Flask, React, Next.js, Bootstrap, TailwindCSS | Tools & Platforms: Git, GitHub, VS Code, Vercel | Database: PostgreSQL

EDUCATION & PROFESSIONAL QUALIFICATIONS

UNIVERSITY OF BIRMINGHAM, MSc Computer Science, (Predicted) Merit, UK 2024 Sep - 2025 Sep

- Distinction Courses: Software Workshop I (Python Programming), Software Workshop II (Flask-Web Development)
- Merit Courses: Artificial Intelligence and Machine Learning, Data Structures, Algorithms, and Databases

BEIJING NORMAL-HONG KONG BAPTIST UNIVERSITY, BA Cinema and Television, China 2016 Sep - 2020 Jun

- Excelled in highly quantitative and classic theory courses, including Statistics, Communication Theory and IT

PROJECT EXPERIENCE

SuperQA - AI Hackathon by HealthTech AI Hub (3rd Place | Cross-functional team of 5) Mar 2025

- Engineered a biomedical Q&A web app using OpenAI GPT-4o to generate vector embeddings for semantic search, achieving 0.82 cosine similarity in context retrieval from 20k+ PubMed abstracts.
- Evaluated system performance with LAB-Bench, attaining 39.20% accuracy in diagnostic answer precision.
- Prototyped cost reduction by implementing Ollama's open-source LLM locally, demonstrating 30% potential API cost savings while maintaining core functionality.

That's Awkward – BirmingHack 2025 (Best Newcomers & 3rd Place – Best Voice AI Hack | 20+ teams) Mar 2025

- Developed an AI script generator for sensitive conversations (e.g., breakups) using Flask, integrating Google Gemini and Neuphonic (text-to-speech) APIs, processing 50+ user queries during the 24-hour event.
- Implemented prompt generation logic using the Gemini API and coordinated front-end development with HTML&CSS, achieving 95% accuracy in contextual appropriateness during live demos evaluated by judges.
- Delivered multilingual audio outputs in 5 languages (English, Spanish, French, German, Japan), contributing to 3rd place ranking for technical execution.

PROFESSIONAL EXPERIENCE

Data Management Assistant, HUIMUYINGHUA CULTURE DEVELOPMENT CO., LTD, China Jul 2022 - Aug 2023

- Built scalable storage architecture with sets of 25×8TB Seagate EXOS and RAID 10 configuration, managing 200TB+ RAW footage and achieving with 99.97% data integrity across 3 concurrent editing teams.
- Engineered storage forecasting model using FORECAST.ETS function in Excel, predicting 6-month capacity needs with 98% accuracy for 8K RAW projects.
- Designed an automated clip segmentation and merging workflow for film projects in Premiere Pro - synchronizing up to 800hrs+ footages with variable speed processing into 250+ tagged clips – to reduce editing time by 35% and boost production throughput by 25%.

Post-Production Producer, CUTTING EDGE PICTURES CO., LTD, China Feb 2021 - Apr 2022

- Proficiently manipulated post-production software to collaborate across 100+ post-production specialists, achieving a 30% reduction in asset turnover time while maintaining 4K DI workflows for 3 concurrent blockbuster projects.
- Directed post-production pipelines for 10+ theatrical films (including 2 IMAX releases) and streaming originals, managing £10-20M budget projects across 8 specialised divisions (editing, DI, sound mixing, VFX, motion graphics, QC, localization, deliverables).
- Streamlined post-production workflows by utilising Synology for asset tracking and secure storage, supporting simultaneous delivery of 2K/4K masters for 5 projects, including one shortlisted for the Cannes Film Festival.

OTHER

- **Interests:** Gym, keen on building muscles, aiming to be a muscular and energetic woman. Cooking worldwide food, keen on tasting something delicious by handmade and explore how to keep its authenticity.
- **Languages:** Fluent in English, Chinese and Cantonese.