Ailin Yu

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SUMMARY

- **Self-Motivated Computer Science postgraduate** with proven experience in project management, financial modeling and **process optimization**. Demonstrated ability to support **commercial decision-making** through Excel forecasting models (98% accuracy), budget management (£10-20M projects), and **stakeholder management** with 100+ professionals. Strong technical foundation with **business intelligence** capabilities and **cross-functional collaboration** experience.

- **Key Skills**: Python, JavaScript | Advanced Excel (FORECAST.ETS) | PostgreSQL | Software Engineering | Budget Management | Process Optimization | Stakeholder Management | Diary Management

EDUCATION

MSc Computer Science (Predicted Distinction) - **University of Birmingham**   Sep 2024 - Sep 2025
- **Software Workshop I & II (Distinction)**: Developed Python programming and web development skills, including database design and user authentication systems using SQLAlchemy & SQLite.
- **AI and Machine Learning**: Hands-on experience with regression modelling, data analysis, and algorithm implementation.

BA Cinema and Television - Beijing Normal-Hong Kong Bapist University   Sep 2016 - Jun 2020
- Combined creative and analytical training; developed strong communication and project coordination skills.

PROFESSIONAL EXPERIENCE

Data Management Assistant, HUIMUYINGHUA CULTURE DEVELOPMENT CO., LTD, China   Jul 2022 - Aug 2023
- Engineered storage forecasting model using FORECAST.ETS function in Excel, predicting 6-month capacity needs with 98% accuracy for infrastructure investment planning.
- 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.
- Collaborated with technical and management teams to support strategic decision-making on resource allocation.

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.
- 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.

PROJECT EXPERIENCE

BiteBerry - AI-Powered Budget-Based Meal Planner | MSc Dissertation Project   Jun 2025 - Present
- Built full-stack application with FastAPI backend and React/TailwindCSS frontend with cost calculation features; users input budget constraints and dietary preferences to receive meal recommendations.
- Analyzed cost optimization scenarios, achieving 25% average savings through data-driven recommendations.
- Optimized SQL database queries using indexed tags, reducing app loading time by 40% for projected 10K+ records.

SuperQA - Biomedical Q&A System | HealthTech Hackathon (3rd Place)   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 cloud vs local deployment options for performance, identifying 30% cost savings through technical analysis.
- Performed dataset preprocessing, cleaning, and validation before embedding generation, ensuring high retrieval accuracy.

That's Awkward - AI Conversation Assistant | BirmingHack 2025 (Best Newcomers & 3rd Place)   Mar 2025
- Developed an AI script generator integrating Google Gemini and TTS APIs, processing 50+ requests at 95% success rate.
- Managed team workflow during 24 hour hackathon, ensuring project delivery under tight deadlines.

SKILLS AND INTERESTS

Languages: English (Fluent), Mandarin Chinese (native), Cantonese (native)
Interests: Gym, aiming to be a muscular and energetic female. Cook worldwide food, exploring how to keep its authenticity.
Societies: WomenStack - Promoting women in tech through social media content creation and community engagement.