Yi Song

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Vancouver, BC, Canada

EDUCATION

• University of British Columbia *Aug 2024 - Jun 2025*
Master of Data Science - Computational Linguistics Vancouver, Canada

• Renmin University of China *Aug 2021 - Jun 2024*
Master of Laws (LL.M.) - Data Law and Civil Law Beijing, China
  ◦ GPA: 3.82/4.00
  ◦ First-class Merit Scholarship recipient for academic excellence
  ◦ Thesis: "Research on Fair Use System for Open Data" (supervised by Prof. Guo Rui)

• University of Strathclyde *Aug 2014 - Jun 2018*
Bachelor of Engineering in Electrical and Electronic Engineering (2+2 Program with Hohai University) Glasgow, Scotland
  ◦ First Class Honours degree
  ◦ Core coursework: Programming (C/C++), Digital Signal Processing, Embedded Systems, Photonics, Control Systems and Robotics

PROJECTS

• Retrieval-Augmented Generation (RAG) System on AWS *Mar 2025 - Present*
AWS, Python, FastAPI, Docker, Vector Databases, DynamoDB, LLM Integration [⚡]
  ◦ Developed a production-ready RAG application deployed on AWS that enables context-aware document querying with vector storage and semantic retrieval using AWS Bedrock and DynamoDB
  ◦ Implemented containerized architecture with Docker for consistent deployment across local and cloud environments, with robust CI/CD pipeline using AWS CDK
  ◦ Created a responsive web frontend that interfaces with the FastAPI backend, providing users with advanced document search capabilities and real-time response handling

• TaskMaster - AI-Powered Task Management Platform *Apr 2025 - Present*
TypeScript, Next.js, Supabase, PostgreSQL, Stripe, OpenAI [⚡]
  ◦ Architected and implemented a full-stack task management application with AI-driven optimization, featuring serverless backend using Supabase with PostgreSQL for data persistence
  ◦ Integrated OpenAI API for intelligent task prioritization and natural language processing, with robust user authentication and role-based access controls
  ◦ Developed a complete subscription management system with Stripe for handling premium tier access and payment processing, with comprehensive integration testing

• Enhancing Compliance of Large Language Models (LLMs) with Legal Requirements *Jun 2023 - Jun 2024*
Tools: NLP, Machine Learning, Legal Analysis [Microsoft Research Asia]
  ◦ Conducted research on large-scale legal models, summarizing foundational structures, parameters, training methods, and legal domain data
  ◦ Designed complex test scenarios for model evaluation in challenging legal contexts such as credit card fraud with multiple legal clause violations
  ◦ Evaluated performance of three LLM categories across knowledge mastery, comprehension of legal matters, and adherence to legal principles

• Translation of "The Oxford Handbook of Ethics of AI" *Sep 2021 - Jun 2024*
Translation, Project Management, Academic Publishing [📖]
  ◦ Translated comprehensive academic text from English to Chinese and proofread translated work
  ◦ Managed translator and proofreader teams, ensuring consistent terminology and quality
  ◦ Coordinated composition of prefaces and endorsements by various translators and proofreaders

EXPERIENCE

- **Sangqiu Biotechnology Co., Ltd.** *Jun 2023 - Present*
  Co-founder & Operations Director Lianyungang, China
  - Lead end-to-end digital transformation initiatives including e-commerce platform development, implementing SAAS solutions for the company's website and WeChat mini-program
  - Designed and deployed comprehensive data systems for inventory management, logistics tracking, and product traceability using SQL databases and visualization tools
  - Conducted market analysis and consumer behavior modeling to optimize product development and marketing strategies for the company's natural herbal shampoo line
  - Managed cross-functional operations including legal compliance, intellectual property protection, contract negotiations, and tax planning

- **School of Interdisciplinary Studies, Renmin University of China** *Mar 2022 - Sep 2022*
  Research Assistant Beijing, China
  - Conducted interdisciplinary research in law and technology focusing on blockchain, metaverse, AI, fin-tech and protection of personal information
  - Participated in the publication of a book and several papers, independently or jointly completed literature reviews on AI and Law

- **Legal Professional Examination Preparation** *Dec 2019 - Dec 2020*
  Independent Study Beijing, China
  - Conducted intensive self-directed study for China's Unified Qualification Exam for Legal Professionals (Chinese Bar Exam)
  - Prepared simultaneously for graduate school entrance examinations while developing foundational knowledge in legal theory and practice

- **Medical Imaging Technology Startup** *Jul 2018 - Jun 2019*
  R&D Engineer Shenzhen, China
  - Applied electrical engineering expertise to research and develop ultrasound imaging technology, performing literature reviews and technical feasibility analysis
  - Designed and prototyped Capacitive Microfabricated Ultrasound Transducer (CMUT) systems, collaborating with cross-functional teams to optimize performance parameters

SKILLS

- **Programming Languages:** Python (Pandas, NumPy, Matplotlib, Seaborn, NLTK, spaCy, Selenium, BeautifulSoup, FastAPI), R (ggplot2, dplyr, tidyr, caret, randomForest), C

- **Database Systems:** SQL, PostgreSQL, MongoDB, MySQL

- **Natural Language Processing:** Tokenization, NER, Text Classification, Word2Vec, Transformers, Sentence Embeddings

- **Deep Learning:** PyTorch, TensorFlow, Transformers, CNNs, RNNs, Fine-tuning Pretrained Models

- **Machine Learning:** Regression, Classification, Clustering, Feature Engineering, Scikit-learn, XGBoost

- **DevOps & Tools:** Docker, Git, Linux (Bash), VSCode, Cursor, Proxmox VE, VMware, Synology NAS

- **Certifications:** China's Unified Qualification Exam for Legal Professionals (Chinese Bar Exam)