



# Jiangye Song

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## PROFILE

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- A proactive and self-motivated programmer with hands-on experience.
- Proficient in web / web application development, familiar with JavaScript, React, Svelte.
- Strong experience in AI development and training.
- Seek to leverage technical expertise and creativity in dynamic team environments.

## EDUCATION

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### Master of Information Technology

February 2024 - February 2025

#### University of New South Wales

- Specialist Artificial Intelligence.
- Fulfilled in multiple projects, demonstrated effective communication and collaboration skills.
- Solved problems, reported to client, and presented results in a team.

### Bachelor of Computer Science

March 2021 - December 2023

#### MONASH University

- Specialist Advanced Computer Science.
- Completed advanced coursework in computer science, covering a diverse range of topics (including Algorithms, AI, Cybersecurity, etc.).
- Gained practical experience through projects Databases, Object-Oriented Design, Paradigm.

## SKILLS

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- **Frontend:** Svelte, ReactJS, JavaScript, TypeScript, HTML & CSS, Material UI, Daisy UI, Tailwind CSS, Figma, Canvas, Responsive design, Heuristic evaluation, Web accessibility.
- **Backend:** Python, Java, C#, Rust, C++, Haskell, PHP, Docker, RESTful API development, JSON handling, Bash, Node.js, Next.js, Socket.io, Express.js.
- **Cloud Services & tools:** AWS, Vercel, WordPress, Google Colab, GitHub, GitLab, Git, Bash, Jira, Trello.
- **Database:** SQL, MySQL, PostgreSQL, Microsoft SQL Server, SQLite, Schema design, Query optimization.
- **Full Stack Development:** Web Development, Frontend-Backend integration, API integration.
- **Artificial Intelligence:** Python (with Seaborn, PyTorch), Data Preprocessing, Data Augmentation, Deep Learning, Computer Vision, Natural Language Processing, Retrieval-Augmented Generation.
- **Data Analysis:** Python (with Pandas, NumPy, Matplotlib), Excel, Jupyter Notebook, Redash.
- **Soft skills:** Agile, Active learning, Analysis, Adaptability, Communication, Time management, Problem Solving.

## PROJECTS

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### Clinical Audit Platform

Oct 2025 – Present

#### Ausbiz Consulting

- Engineered a complete content management system for clinical documents and their vector embeddings using Next.js and PostgreSQL (with pgvector extension and Cohere API).
- Successfully merged the standalone admin project into the primary Clinical Audit Platform to serve as its core content management panel.
- Improved core platform functionality by implementing dynamic data fetching with pagination and ensuring AI prompts included relevant clinical guideline search results.
- Refined the user interface by fixing display issues, updating dashboard components, and correcting layout inconsistencies.
- Contributed to the project's stability by fixing data structure bugs, resolving linting warnings, and improving application performance.

### Real-Time Retinal Vessel Segmentation Using LDM Res-Net

September 2024 - November 2024

#### University of New South Wales

- Created LDM Res-Net with Python in a group, a lightweight and efficient model for real-time retinal vessel segmentation.
- Integrated dual multiscale residual blocks and an encoder-decoder architecture to enhance segmentation accuracy.
- Achieved high efficiency with only 0.961M learnable parameters and rapid training/inference speeds.
- Delivered weekly demonstrations and presentations to clients.

#### Emotion Analytics Using Tweets

May 2024 - August 2024

##### University of New South Wales

- Constructed a deep learning-based solution to classify emotions in English Twitter messages using Natural Language Processing (NLP) techniques.
- Conducted data pre-processing, tokenization, and feature extraction to improve model accuracy and performance.
- Implemented multiple learning models collaborated with a team, including LSTM and BERT, ensured a clear understanding and alignment across team.
- Delivered detailed reports and analysis on model's metrics, presented project concept and outcomes to sponsors.

## WORK EXPERIENCE

#### Software Engineer Intern

August 2025 – Present

##### Ausbiz Consulting

- Initiated internship with an intensive 4-week bootcamp in Full-Stack Development and Data Analysis with AI Agents, establishing a technical foundation for live industry projects.
- Engineered and deployed two full-stack, enterprise-grade applications (Coupon Management MCP Server & Clinical Audit System), focusing on AI agent integration, modern authentication protocols, and advanced semantic search capabilities.
- Demonstrated proficiency in architecting scalable systems, resolving complex integration challenges, and applying modern development patterns in a professional setting.

#### Software Engineer Intern

February 2025 – May 2025

##### IMTG

- Conducted research and evaluation of emerging technologies to enhance project integration and improve system efficiency.
- Developed scripts and automation tools to streamline tasks, including data processing and workflow optimizations.
- Designed and developed a Kanban application using Svelte, improving task management and collaboration.
- Enhanced and customized an existing SuiteCRM system based on client support tickets, addressing feature requests and bug fixes.
- Wrote complex SQL queries in Redash to extract and visualize key business insights for data-driven decision-making.
- Performed QA testing of software applications, identifying and resolving bugs to ensure optimal performance.

#### IT Consulting Intern

May 2024 - September 2024

##### Simple Taste Footwear

- Built a report generator utility in C# by leveraging Windows Forms to enable personnel data entry and streamline information standardization workflows.
- Included designing a user-friendly, intuitive, and easy-to-use interface through C# designers, ensuring low learning-curve for users of all ages.
- Demonstrated communication skills by translating client needs into actionable development tasks.

## EXTRACURRICULAR ACTIVITIES

#### Personal Websites

May 2024 - Present

- Designed and maintained multiple personal websites to display resume, projects, blogs, etc.
- Designed custom themes using PHP, CSS, and JavaScript based on Diaspora theme.
- Developed functionalities with PHP and SQL mental monitor, training record keeper, and message board

## HOBBIES

Web development, utility programs, and gaming.

## REFEREES

Available upon request.