ZIYUAN ZHAO (MAX)

Software Engineer

📞 022 6511037   ✉ maxzhao0610@gmail.com

🖥 7 Golden Morining Drive, Albany, Auckland, New Zealand

EDUCATION

Bachelor of Computer & Information Science

Auckland University of Technology
03 / 2021 – 06 / 2024
Major: **Software Development**
       Data Science

SKILLS

Lauguages:
- Python
- Java
- C
- React
- C#

AI & Machine Learning:
- Model Development
- Deep Learning Model Building
- NLP Techniques

Data Skills:
- SQL
- R
- Power BI
- Data Analysis

Web Development:
- Application Development
- Website Creation

Specialized AI Skills:
- Prompt Engineering
- AI Model Optimization

LANGUAGES

English – Fluent

Chinese – Native

PROFILE

Results-driven **Full-Stack Developer** specializing in **AI integration** for mobile and web platforms. Experienced in delivering intelligent applications with expertise in **front-end (SwiftUI, React), back-end**, and advanced AI capabilities like **NLP** and computer vision. Skilled in translating business needs into innovative software solutions. **Seeking a full-stack role** to apply my diverse technical background and collaborative skills.

WORKING EXPERIENCE

Software Engineer | 07 / 2024 – Present

Evolviontech Limited, NZ

Project 1: A versatile Discord AI Voice Assistant – Real-time speech recognition, text-to-speech, intelligent conversations, and full Chinese language support for personalized user interactions.
- **Discord Bot Development:** Designed and implemented the bot framework using discord.js, integrated voice and text commands, and configured user permissions.
- **AI & Voice Integration:** Leveraged DeepSeek API for intelligent conversations and PaddleSpeech for bilingual speech recognition and synthesis.
- **Deployment & Maintenance:** Coordinated cross-language systems, optimized audio processing, and ensured seamless bot deployment with ongoing updates.

Project 2: AI-Powered English Speaking Practice APP – Offering real-time pronunciation feedback, interactive scenarios, and personalized learning to enhance fluency effectively.
- **iOS Development:** Built responsive user interfaces using SwiftUI, integrated Core Data for storage, and implemented speech recognition via the iOS Speech Framework.
- **AI Integration:** Developed interfaces for DeepSeek AI API, implemented adaptive learning logic, and created algorithms for personalized feedback and voice analysis.

SELF-ASSESSMENT

- **Full-stack** AI/ML
- **Depth** & Breadth of Techs
- **Data-Driven** Problem-Solving
- **Rapid** Learning & Adaptability
- **Integration** of Technology and business
- **Collaboration** & Execution

Reference available upon request

Project 3: PhotoManager ios APP – A SwiftUI-powered photo management app with an intuitive interface, optimized image loading, and plans for AI-driven photo analysis.aims to delivery fast photo management, 50% quicker organization, and 90%+ AI accuracy for smart categorization

- **Photo Management Optimization:** Developed intuitive browsing and efficient image loading using SwiftUI and Core Data to enhance performance for large libraries.
- **AI Feature Design:** Initiated plans for integrating FastViT-based photo analysis, enabling categorization and smart album creation.

HAND-ON PROJECTS I 03 / 2023 - 06 / 2024

- **Quantified Information Extraction & Ontology Development (NLP)**

A custom NLP solution for extracting quantitative data from unstructured text, enhancing accuracy and usability with ontology modeling and AI-driven entity relationship predictions.

Technical Stack: Python, SpaCy, Transformers (BERT), OWL/RDF, Rule-based Matching, Dependency Parsing

- **Pneumonia Detection using CNN (Computer Vision)**

A CNN-based solution achieving 92.6% accuracy for pneumonia detection from X-rays, optimized with data augmentation and deployed for scalable real-world inference.

Technical Stack: Python, TensorFlow, Keras, OpenCV, Albumentations