Zuxing Wu

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PERSONAL SUMMARY

Experienced and solution-oriented coder with a wide variety of professional experiences. Adept at motivating self and others. Passionate about data security and software optimisation. Always eager to learn from those around me.

SKILLS

Languages: Java, Python, C++, C#, TypeScript, JavaScript, Shell, HTML, CSS, SQL
Technologies: React.js, Flutter, AWS, Docker, Supabase, Firebase, RESTful API, CI/CD, GitHub, Oracle, MySQL, Figma
Concepts: Full-stack, Artificial Intelligence, Machine Learning, API, Database Management, Agile Methodology, Cloud Computing, Agile

EDUCATION

University of Adelaide   July 2023 – July 2025
Master of Computer Science   *Adelaide, SA*

- **Relevant Coursework:** Introduction to Statistical Machine Learning, Mining Big Data, Distributed Systems, Specialised Programming, Event Driven Computing, Applied Natural Language Processing, Search Based Software Engineering, Software Process Improvement, Mobile and Wireless Systems

Jiangsu Normal University   September 2011 – May 2015
Bachelor of Software Engineering   *Jiangsu, China*

WORK EXPERIENCE

DECODATA   November 2024 – July 2025
Full Stack Developer Intern   *Adelaide, SA, Australia*

- Developed a web application for users asking NDIS-related questions and getting answers from specially trained LLM model through API, integrated with Supabase.
- Saved users' chat history into Supabase to ensure users can continue their conversation after refreshing the page.
- Deployed the chatbot on AWS EC2 using Docker, which can handle 1000+ users simultaneously.
- Implemented continuous integration and monitoring strategies, ensuring system stability and optimal performance.

Nanjing Fitech Data System Co., Ltd   July 2018 – July 2020
Data Engineer & Technical Support Specialist   *Nanjing, Jiangsu, China*

- Conducted research and developed multiple data submission systems.
- Identified and resolved critical system testing issues, improving deployment efficiency.
- Assured systems are deployed successfully and clients can submit data correctly.
- Designed and implemented SQL validation scripts and stored procedures to ensure data integrity.
- Optimized database queries, reducing page load times by 15% and enhancing overall application performance.

Wonders Information Corp., Ltd Nanjing Branch   July 2015 – July 2018
Software Developer & Database Maintenance Engineer   *Nanjing, Jiangsu, China*

- Conducted research and developed data management systems.
- Fixed all types of issues arising during system testing.
- Troubleshot and resolved anomalies encountered by clients while using products.
- Executed program scripts monthly to report production data; Assured smooth submission of business data; Generated data reports for every cycle.

PROJECTS

NDIS Knowledge Hub Chatbot | *React.js, AWS EC2, Supabase, Docker*
- Created a simple login and chat page for users asking NDIS-related questions, integrated with Supabase.
- Saved users' chat history into Supabase to ensure users can continue their conversation after refreshing the page.
- Deployed the chatbot on AWS EC2 using Docker, which can handle 1000+ users simultaneously.

Bill-Split Android App | *Figma, Flutter, RESTful API, LLM, Firebase*
- Designed and developed a mobile application helping housemates fairly split expenses and avoid disputes.
- Visualized tenants' daily resource consumption using interactive charts, improving users' understanding.
- Implemented a chatbot named Butler to send tenants system-level notifications/warnings through Firebase. Ensured tenants and landlords could chat with each other.
- Integrated the app with the OpenAI API to provide users with useful usage summary and recommendations.

UI Energy Consumption Optimisation | *Java, Maven, Python, Optimisation Algorithm, Automation*
- Reduced UI energy consumption by changing the RGB parameters of each widget, still ensuring text readability.
- Implemented automated snapshot capturing and energy consumption calculation in the process of optimisation.
- Wrote a Python script to read saved energy consumption and show value changes with line charts.

Grocery Recommendation System | *Python, Pandas, NumPy, Matplotlib, Seaborn, Collaborative Filtering*
- Mined frequent itemsets from the dataset using the Apriori algorithm and FP-growth algorithm.
- Built a recommendation system based on collaborative filtering, which can recommend items to users.
- Evaluated the recommendation results using the Root Mean Squared Error (RMSE).

REFEREES

Dr. Adel Nikfarjam
Postdoctoral Researcher | Supervisor
University of Adelaide
☎ 0466 731 130
✉ adel.nikfarjam@adelaide.edu.au
Relationship: Academic supervisor during my Master's research project.

Dr. Maryam Hasani Shoreh
Senior Machine Learning Scientist | PhD
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☎ 0412 361 623
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Relationship: Mentor/leader during my internship at DECODATA.

Fred Lim
Senior Quantity Surveyor
Rider Levett Bucknall
☎ 0431 222 871
Email: syerpeow@gmail.com
Relationship: A friend who knows me very well.