Jinghui Wang

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Summary

Results-oriented and innovative Software Engineer with more than 1 years' experience specializing in both front-end and back-end development. Proficient in Python, JavaScript, React and MySQL. Experienced in CI/CD, AWS, Container. Demonstrated expertise in working within an agile development environment and delivering projects on time.

Skills

Languages:	**Python,** Java, **JavaScript**, PHP, C
Web tech:	Springboot, **Restful API**, FastAPI**, CodeIgniter**, ASP.NET,
Front end:	**React,** NextJS, HTML5, CSS3, Bootstrap
DB:	**MySQL**, MongoDB, Snowflake, Postgres
Tools:	**AWS**, GCP, Git, **Docker**, Celery, Kubernetes, Hadoop

Work Experience

Backend/ AI Engineer Intern   **Empathetic AI**, Brisbane   07.2024 – 11.2024

Description: Developed the creation of Australia's first AI Tax Copilot, Luna, powered by advanced Generative AI technology, which won 3rd place in Australia's inaugural AI Sprint.

Technologies: Python, React, FastAPI, Celery, Next.js, Git, CI/CD, Docker, AWS

- Engaged in the development and maintenance of front/backend services for Luna, Australia's first AI Tax Copilot, leveraging advanced technologies in **Python**, **NextJS** and **FastAPI**.

- Enhanced Luna's tax scenario efficiency by integrating complex task queues with Celery, deploying with **Docker**, and scaling through **AWS**.

- Engaged in R&D initiatives focused on RAG, multimodal LLMs (Large Language Models), and the advancement of data privacy and desensitization.

Software Engineer Intern   **Aubot**, Brisbane   06.2024 - 07.2024

Description: Utilized innovative online educational platform offering interactive coding courses designed for young students to foster digital literacy and coding skills.

Technologies: Java, Python, C

- Engaged in the development of interactive educational modules for programming languages, including Java, **Python** and C, enhancing learning experiences for students using Aubot's educational portal.

- Conducted quality assurance testing to ensure the accuracy and functionality of educational content, contributing to a reliable and effective learning platform.

- Utilized user feedback and analytics to refine and optimize educational content and platform features, fostering an engaging learning environment.

Postgraduate Research Fellow   **University of Queensland**, Brisbane   01.2024 - 04.2024

Description: Utilized Advancing prompt learning from NLP to improve vision-language models, employing

Stable Diffusion to enhance model adaptability and effectiveness.

Technologies: Python, PyTorch, TensorFlow, Stable Diffusion

- Advanced the development of prompt learning techniques from NLP to enhance vision-language models, specifically focusing on models like CLIP, using **Python** and advanced machine learning frameworks.
- Utilized Stable Diffusion techniques to fine-tune vision-language models, improving their adaptability and performance across various datasets.
- Investigated and addressed limitations in Context Optimization (CoOp), aiming to reduce overfitting and enhance the generalizability of prompt learning algorithms.
- Explored zero-shot learning methods to increase the robustness and utility of vision-language models, positioning them for broader application in real-world scenarios.

Instructor   **Junior Engineers**, Brisbane   11.2023 – 03.2024

Description: Facilitated computer programming and robotics classes for students, tailoring lessons to individual learning styles and promoting technological education.

Technologies: Python, Arduino, Scratch

- Led programming and robotics classes, employing educational technologies and programming languages like Scratch, **Python**, and Arduino to cater to diverse learning styles.
- Developed and implemented lesson plans that utilized hands-on learning approaches to enhance student engagement and understanding of technology.
- Monitored student progress and provided detailed feedback to promote continuous development and interest in technological education.
- Engaged in professional development to stay updated with the latest advancements in tech education and pedagogy.

Software Engineer Intern   **Nantian Electronics**, Beijing   11.2021 – 02.2022

Description: Developed the office automation system for the Bank of China and scalable solutions tailored to client specifications.

Technologies: Python, Spring Boot, ASP.NET, REST APIs, MySQL, CI/CD, Git

- Analyzed and redesigned system architectures for modernization projects, particularly for the Bank of China, using **Python** and Spring Boot for backend development.
- Integrated ASP.NET and **REST API** for middleware components, enhancing system integration and user experience.
- Conducted extensive testing across unit, integration, and user acceptance phases to ensure system reliability and performance.
- Collaborated closely with stakeholders to align project goals and deliver on client expectations, ensuring effective communication and project management.
- Supported the deployment and operational phase post-launch, including user training, system and database maintenance using **MySQL**.

Certificates

Deloitte Australia Technology virtual experience program on Forage	Aug 2023
Electronic Arts Software Engineering virtual experience program on Forage	Aug 2023

Cyclone RPA (Robotic Process Automation) Certification   Dec 2021

Education

Master of Data Science   University of Queensland (2023.08 – 2025.7)

GPA: 6.33/7

Core courses: information retrieval, artificial intelligence, computer vision, cloud computing, data Mining, data analysis

Bachelor of Computer Science   University of Queensland (2021.02 – 2023.7)

Core courses: Python, Java, JavaScript, C, advanced database systems, machine learning, algorithm and data

Referees

| Angela Shi | Founder & CEO at Empathetic AI | 0432391133 | angela.shi@empathetic-ai.com |
| Dongjie Wu | Tech Lead & AI Architect at Plus AI | 0415925578 | dwu.jacob@gmail.com |