

PROFILE

A dynamic and innovative Full Stack Developer with a Master of Information Technology and hands-on experience with programming languages, database technologies, and cloud computing initiatives. Equipped with expertise in developing AI-driven applications, particularly in the realm of human movement evaluation and AI-as-a-Service APIs. Skilled in analysing user requirements, designing intuitive UIs, and developing robust software solutions. Consistently shown the ability to work independently and prioritise tasks effectively, ensuring both high quality and timely completion of projects.

TECHNICAL SKILLS

- **Programming Languages:** Proficient in Python, Java, C, JavaScript, HTML, and CSS.
- **Database Technologies:** Skilled in MySQL and MongoDB.
- **Cloud Computing:** Experienced with Amazon Web Services.

QUALIFICATIONS & PROFESSIONAL DEVELOPMENT

- **Master of Information Technology (Artificial Intelligence)** | The University of Melbourne | 2022
- **Bachelor of Computer Science and Technology** | Guangxi University | 2020
- **Deloitte Virtual Experience Program** Coding, Data Analysis, Development, Cyber Security & Forensic Technology | 2023
- **Melbourne Postgraduate Scholarship** UOM | 2022
- **Patents** Shaochang Deng, Puyu Li, Yimu Fu. Computer Hardware Equipment Operation Visualisation Monitoring System V1.0. (2019, CHN patent, 2019SR0717150)

PROFESSIONAL EXPERIENCE

Full Stack Developer | Private Projects | 2022

Advancing Human Movement Evaluation Using AI

Developed a cutting-edge solution for human movement analysis, integrating wearable sensor technology with artificial intelligence. This system provides real-time monitoring of limb movements and calculates inter-limb angles with high precision.

- **Neural Networks:** Increased the accuracy of limb angle computations to within a minimal margin of error with the use of a neural network model, enhancing the precision of movement analysis.
- **UI Design & Development:** Crafted a user-friendly interface in React.js, focusing on efficient data visualisation and sensor integration.
- **Requirement Analysis:** Conducted thorough analysis of user needs, leading to the design of 3 software prototypes that met specific client requirements, including functions and UI.
- **Problem Resolution:** Decreased bug resolution time through systematic approaches, thereby enhancing system reliability and performance.

Splendor Board Game Agent (Open-Source Project)

Pioneered an AI-powered agent for the Splendor board game, aiming to automate gameplay through advanced AI methodologies.

- **Autonomous AI Planning:** Enhanced game decision accuracy by 20% through automated gameplay and the implementation of advanced heuristic search and game tree exploration techniques.
- **Active Learning:** Continuously engaged in research through academic papers and technical forums, applying newfound knowledge to optimise game strategies and problem-solving techniques.
- **Recognition:** Ranked in the Top-10 among more than 80 teams in the competition at that time.

Power Platform Developer (Intern) | EmpyreanIT | Jan 2024 - Apr 2024

Led the support for development teams by providing expert assistance in the utilization of Power Apps, Power Automate, and SharePoint Lists, enhancing the overall productivity and efficiency of project workflows.

- **Development Support & Migration:** Spearheaded the provision of developmental support to team members, overseeing the migration of over 50 solutions to a new development environment, thereby ensuring operational continuity and efficiency enhancements.
- **Policy Acknowledgment App:** Utilized Power Apps to develop the "Policy Acknowledgment App", facilitating employees in accessing, reading, and acknowledging new company policies. This led to a marked improvement in policy compliance and organizational awareness.

- **Standup Meeting Optimization:** From the ground up, designed the "Development Team Standup App" leveraging Power Automate and SharePoint Lists. This innovation automated daily task scheduling, enabling leaders to review, adjust, and approve with ease, which optimized the efficiency of standup meetings.
- **Power Apps & Power Automate Integration:** Exhibited expertise in crafting responsive user interfaces with Power Apps, storing user data effectively in SharePoint Lists, and employing Power Automate for the seamless creation and updating of user data, achieving streamlined software flows and process automation.

Full Stack Developer | 2Cloud Technology | May 2023 – Nov 2023

Led the development of an AI-as-a-Service API, focusing on advanced computer vision capabilities tailored for retail product branding applications.

- **Cutting-edge Technology:** Innovated and patented a Computer Vision Application, achieving a 97% accuracy rate in identifying dashed outlines within images, as verified by AWS Rekognition.
- **Computer Vision Algorithm Enhancement:** Enhanced image processing speed in OpenCV, focusing on advanced edge detection, polygon fitting, and perspective transformation techniques.
- **Preprocessing Workflow Optimisation:** Standardised the naming and annotation of product images, reducing data preparation time by 50% while maintaining high data quality standards. Utilised AWS Rekognition for data handling.
- **API Development and Deployment:** Engineered and deployed scalable API solutions on AWS Lambda that supported an increase in user traffic without sacrificing performance and seamlessly integrating with front-end web interfaces.
- **Website Development:** Independently developed an AI-related service from scratch, ensuring their effective integration into the existing website infrastructure, such as branding mock-up service.
- **Integration:** Crafted a product quotation web page using Vue.js, contributing to increased user engagement.

Flutter Developer | Fair Share Group | Mar 2023 – May 2023

Collaborated in the development of user-centric web applications, ensuring optimal functionality and user experience.

- **Flutter:** Demonstrated proficiency in creating responsive and visually appealing interfaces.
- **Testing and Debugging:** Played a pivotal role in the testing phase, identifying and rectifying bugs to enhance application performance. Utilised debugging tools and techniques to ensure smooth and reliable application operation.
- **Requirement Analysis and Design:** Engaged in 5+ requirement-gathering sessions, translating client needs into technical specifications. Contributed to feature design, ensuring alignment with project objectives and user expectations.
- **Team Collaboration:** Accumulated 200 hours of development experience, including having the confidence to share insights and learnings within a team of 6 UI/UX designers, the product owner, and other developers.
- **Knowledge Sharing:** Participated in daily technology discussions, contributing to a culture of continuous learning and improvement.

Web Application Developer (Intern) | Fair Share Group | Mar 2023 - May 2023

Played a key role in developing and maintaining robust web applications, with a special focus on the UI2Code tool. Responsible for implementing critical unit and integration tests to guarantee application functionality and reliability.

- **UI2Code Tool Development:** Led the development of the UI2Code tool, a web application designed to enhance user interface coding efficiency.
- **Programming:** Utilised Flutter framework in Dart, demonstrating strong coding skills and attention to user experience.
- **Application Testing:** Devised and executed comprehensive unit and integration testing protocols for the UI2Code application, significantly improving its quality and reliability.
- **Quality Assurance:** Demonstrated proficiency in testing methodologies, ensuring that all features performed to specification.
- **Requirement Analysis:** Collaborated with cross-functional teams to translate business needs into functional and technical requirements.
- **Web Application Design:** Contributed to the detailed feature design process, ensuring that all client and project specifications were met.

REFERENCES

Available on request