

WORK EXPERIENCE

Data Analyst Consultant @ Auto & General

Brisbane, Full-time, September 2024 - present

1. Led end-to-end product development, including user research, UI/UX design, software development, and testing.
2. Designed and developed a task management platform using React, Next.js, Prisma, REST API, GraphQL, and TypeScript, handling both frontend and backend development — supporting 20+ daily active users and improving task tracking efficiency by 30%.
3. Designed and built a prototype AI conversation system using Next.js, and Dialogflow CX to verify and process user documents, eliminating over 100 manual tasks per month.
4. Streamlined claim management processes by collaborating with stakeholders across divisions to identify user pain points, designing UI/UX solutions and conducting usability testing to effectively meet user needs.
5. Designed and built interactive dashboards and features to assist team leaders increase the visibility into team performance.

Interaction Developer @ Rhombus AI

Sydney, Part-time, April 2024 - October 2024

1. Designed and developed an interactive landing page using Next.js, Tailwind CSS, and TypeScript, focusing on responsive and dynamic UI design.
2. Designed the onboarding experience by conducting user research and UI/UX design, resulting in a 30% increase in engagement.

Data Scientist Intern @ SPACE Platform

Brisbane, Part-time, December 2022 - March 2023

1. Analyzed and processed time-series data over 100,000 records using SQL, Pandas, PySpark, and TDEngine, streamlining the data processing pipeline.
2. Built data visualization tools with Seaborn and Matplotlib to identify trends, enhancing the machine learning model's performance.

Machine Learning Engineer @ G4 Technology

Taipei, Full-time. June 2021 - January 2022

1. Developed and deployed an ML-driven Automated Optical Inspection (AOI) system using TensorFlow, PyTorch, and Keras, increasing accuracy from 66% to 99.7%.
2. Collaborated across divisions to collect, preprocess, and analyze data to ensure high-quality input, optimizing AI system.
3. Built an object recognition system with ROS, enabling integration with robotic arms and improving precision in automated handling processes.

PROJECTS

AI Document Verification and Processing Service

1. Designed and developed a conversational workflow using Google Dialogflow CX to verify and process user documents.
2. Designed and developed frontend components using Figma and Next.js, allowing the users to interact with AI service.

Workflow Management Portal

1. Developed frontend components, database architecture, and API integrations with React, Next.js, and TypeScript.
2. Designed and developed a REST API and GraphQL using Prisma and Apollo to enhance data accessibility.
3. Designed and deployed a CI/CD automated ETL pipeline to transfer data with Airflow DAG on GCS, enabling real-time data transfers and updates.
4. Collaborated across divisions and specialties to clarify and identify user needs by conducting usability testing and user research.

AI Contact Lens Detection System

1. Engineered an ML-powered object recognition system using Tensorflow and Pytorch to accurately detect contact lenses in real-time, achieving a detection accuracy of over 99%.
2. Integrated the ML detection models with a robotic arm using Robot Operating System (ROS).
3. Implemented data preprocessing and augmentation pipelines to enhance the model's robustness.

SKILLS

UI/UX

Figma, User Research, Usability Testing

Frontend Development

React, Angular, Next.js, Tailwind CSS, Prisma, Zustand, Redux, GraphQL, REST API

Tools & Technologies

Docker, Git/GitHub, Pytest, Google Cloud (BigQuery, Cloud SQL, Cloud Run, Cloud Build, Scheduler), AWS

Data Processing, Visualization, and Analysis

SQL, PostgreSQL, PySpark, TDEngine, Pandas, Seaborn, Matplotlib

EDUCATION

Master of Interaction Design @ The University of Queensland

February 2022 - December 2023

Master of Electrical Engineering @ Yuan Ze University

September 2019 - February 2021

Bachelor of Electrical Engineering @ Yuan Ze University

September 2015 - June 2019