

ZICHUAN YAO

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Zichuan Yao

Eric Yao

SKILLS

Technical: Python, C, Typescript, R, Assembly, VS Code, NextJS, Linux, GitHub, Git, MS Office

Soft: Bilingual (English and Chinese), Teamwork and Collaboration, Patience, Adaptability, Strong Work Ethic

PROJECTS

Personal Webs | Typescript, HTML, NextJS, Shadcn, Magic UI

- A responsive portfolio website that showcases my work, includes a project gallery, and features contact info.
- [Website address](#)

Iris Neural Network | Python, Numpy, Pandas

- Built a deep neural network from scratch using NumPy to classify Iris flower species. Implemented data preprocessing, He/Xavier initialization, activation functions, forward and backward propagation, and optimization.

WORK EXPERIENCE

Porton Pharma Solutions Ltd.

Data Analyst

May – Aug. 2024

Shanghai, China

- Conducted comprehensive analysis** of global pharmaceutical and biotech companies via multi-source databases, completing background checks and pipeline transaction research to inform partnership and strategic decisions.
- Analyzed preclinical, clinical, and commercial drug dosage data**, comparing similar drugs, patient numbers, and compliance metrics. Participated in forecasting API dosages for unmarketed drugs to support procurement planning with developers.
- Researched the GLP-1 target drug landscape**, creating a PowerPoint report to identify drivers of its popularity and provide market growth projections.
- Managed weekly collection and entry of raw leads into Excel, ensuring accurate and timely data for **lead management and follow-up**.
- Coordinated CPHI Global Exhibition logistics**, including material preparation, booth layout, and conference room scheduling, contributing to successful event execution and enhanced company visibility.

Shenglan Semiconductor

Engineer Intern

Jan – Apr. 2025

Shanghai, China

- Semiconductor Process Analysis:** Evaluated bare wafer uniformity by comparing ellipsometry and stress data across process batches, quantifying sample consistency.
- Material Characterization:** Collected and analyzed XRD and SEM data to determine crystal growth orientation and microstructural characteristics of semiconductor materials.
- Experimental Design & Testing:** Tested the piezoelectric effect of cantilever structures and statistically assessed regional uniformity of piezoelectric performance.
- Process Standardization:** Participated in developing a detailed piezoelectric testing operation manual to standardize procedures and parameter settings for consistent, reproducible results.

EDUCATION

University of Waterloo

Bachelor of Honours Mathematics, Co-operative Education

Sept. 2023 to May. 2028

Waterloo, ON