

ZHUOBIN(JABIN) CHEN

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TECHNICAL STRENGTHS

Programming Languages:

- Advanced: Python, R, JavaScript (React), Swift
- Intermediate: Java, R, SQL, C

Development Frameworks & Tools:

- Web Development: ReactJS, Node.js, Express, MongoDB (MERN Stack)
- Mobile Development: Swift for iOS
- Data Analysis: R, SPSS, Python with Pandas, NumPy, Scikit-Learn
- Deployment: AWS, Docker, Nginx
- Version Control: Git

Certifications: AWS Academy Cloud Architecting, Microsoft Office Specialist Master

EXPERIENCE

The University of Auckland

Feb 2023 - Present

Teaching Assistant

- Evaluated and marked assignments for computer science courses, specifically *Principles of Programming*, *Introduction to Software Fundamentals* and *Computer Organisation*, maintaining high academic standards.
- Provided teaching assistance to faculty, enriching the learning environment for students through additional support and resources.
- Delivered constructive feedback to students, promoting better academic outcomes and comprehension.

FRW Healthcare Limited, ICT Graduate School

Jun 2024 - Present

Web & Mobile Frontend Developer

- Led the development of an innovative application that revolutionizes the medication purchasing process in pharmacies by automating data extraction from product images using advanced image recognition technology.
- Engineered a minimalist, user-centric interface using **Swift** for iOS and **ReactJs** with **Tailwindcss** for web, enhancing intuitive navigation and user interaction, which significantly boosted operational efficiency.
- Integrated OpenAI's API to facilitate real-time image recognition and knowledge base searches. Collaborated with backend developers, consuming **RESTful APIs** to ensure efficient communication between the frontend and backend systems.
- Utilized **Docker** to containerize the frontend applications, managed deployments using **Nginx** as a reverse proxy and load balancer, and successfully deployed the scalable solution on **AWS**, ensuring optimal performance and reliability of cloud services.

PROJECT

MERN Stack Web Application Development

Jun 2023 - Nov 2023

Full Stack Developer

- Participated in a team project to develop a feature-rich web application using the MERN stack, focusing on integrating Spotify's and OpenAI's API to enhance user interactivity.

- Took charge of full-stack development, including both front-end and back-end responsibilities. Gained a profound understanding of the development of frontend and backend systems for enhancing user experience through the integration of large language model APIs.
- Employed technologies such as **React**, **Node.js**, **Express**, and **MongoDB** to build a robust application that replicated and extended the functionalities of Spotify, adding social features like song commenting and real-time chat.

Data Mining and Big Data Analysis on COVID-19 Impact

Jun 2023 - Nov 2023

Data Analyst

- Conducted an in-depth data mining project to analyze the impact of the COVID-19 pandemic on education quality in Venezuela, using the CRISP-DM methodology.
- Utilized a variety of data analysis tools including **IBM SPSS Modeler**, **Spyder**, and **Jupyter Notebook**, leveraging both **Python** and **R** for data preprocessing, complex modeling, and in-depth analysis.
- Designed and tested multiple machine learning models—including **decision trees**, **random forests**, **logistic regression**, and **clustering**—to identify and predict key factors leading to increased school dropout rates during the pandemic.

EDUCATION

University of Auckland

Master of Science Major in Information Technology

GPA: 7/9

Jul 2023 - Dec 2024

University of Auckland

Bachelor of Science Major in Computer Science

Jul 2020 - July 2023

REFERENCE

Available if required