

Henry Zhang
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EDUCATION

Bachelor of Science

Feb, 2023 - Feb, 2025

The University of Melbourne

Major in Computing and Software Engineering

RELEVANT EXPERIENCE

React Developer

Dec, 2024 - Present

Personal Project, Melbourne, Victoria, Australia · On-site

- Built a responsive movie search app using React.js with functional components, hooks (useState, useEffect), and API integration (OMDb)
- Built and deployed a responsive movie search app to GitHub, and utilized Git for version tracking and collaborative code management, including branching, merging, and resolving conflicts
- Designed reusable components and optimized performance for a seamless user experience, and Styled app with CSS, ensuring a clean and intuitive interface

Swift Developer

Nov, 2024 - Present

Psyckitchen, Melbourne, Victoria, Australia · On-site

- Designed and developed 10+ responsive and user-friendly frontend pages for iOS applications operating Swift and SwiftUI, ensuring compliance with Apple's Human Interface Guidelines (HIG) and delivering a seamless user experience
- Collaborated in a team environment using GitHub for source control, organizing pull requests, solving merge conflicts, and conducting code reviews to ensure clean and maintainable code
- Established and managed communication between frontend and backend by consuming RESTful APIs and handling JSON data serialization/de-serialization with tools URLSession
- Executed thorough performance testing and debugging, increasing system uptime to 99.9% and minimizing critical failures
- Collaborated with backend developers to define API specifications, troubleshoot connection issues, and optimize request-response cycles, reducing latency by 15% and improving overall app performance

Python Data Analyst

Oct, 2024 - Dec, 2024

University of Melbourne, Melbourne, Victoria, Australia · On-site

- Collaborated to group projects by leverage GitHub for version control, coordinating updates and organizing codebase integrity in collaborative data analysis
- Cleaned and prepared raw datasets using Python, including data imputation, reshaping, and removing duplicates, and generated descriptive statistics to understand data distributions and variability
- Computed Pearson correlation and normalized mutual information (NMI) to evaluate feature relationships, identifying key predictors of household income with 75% correlation accuracy
- Established and evaluated linear regression models to analyse relationship between community attributes and household income, achieving an R^2 value of 0.85, indicating high predictive accuracy
- Executed K-means clustering with dimensionality reduction using PCA and visualized results (elbow method)
- Developed a KNN classification model with performance metrics (precision, recall, F1 score)

Research Assistant

Dec, 2023 - Jan, 2024

University of Sun Yat-Sen, Zhuhai, Guangdong, China · On-site

- Reproduced and performed existing algorithms and publicly available code for environmental signal processing, validating effectiveness in challenging scenarios by leverage python
- Conducted comprehensive literature reviews on artificial intelligence-assisted signal processing methods, identifying advancements improved environmental sensing accuracy under noisy conditions by 15%
- Assembled and installed advanced laboratory instruments, including LinMot C1XX0 Linear Motors and Keithley digital measurement devices, reducing set-up time by 20% and ensuring operational readiness for research activities
- Trained 5+ students on advanced instrument usage, streamlined lab operations by 30%, and resolved technical issues through effective supplier communication

Operation Engineer

Mar, 2019 - May, 2020

China Thinks Big Competition, Shenzhen, Guangdong, China · On-site

- Took primary responsibility for maintaining and operating a mini-program for a charity second-hand goods trading platform, ensuring a seamless and user-friendly experience for 100+ active users throughout competition
- Managed and updated promotional website content, increasing user engagement by 20% while ensuring technical stability and consistent design to communicate platform's mission
- Collaborated with a multidisciplinary team to design and implement innovative solutions for second-hand goods trading, demonstrating adaptability and expertise earned team Global Bronze Award in an international competition

TECHNICAL SKILLS

Programming Language: Java | C | Python

Front-End Development: React | JavaScript | Swift | CSS | HTML

Version Control: Proficient in Git and GitHub for collaborative software development and project management

Database Management: MySQL