

TIANHUA(KYLE) HE

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PERSONAL PROFILE

Highly motivated Computer Systems Engineering graduate with First Class Honours from the University of Auckland. Skilled in full-stack development, machine learning, and embedded systems. Demonstrated ability to innovate and solve complex problems through internships and academic projects. Seeking a challenging software engineering role to leverage technical expertise and drive technological advancements.

EDUCATION

University of Auckland

July 2020 - December 2023

Bachelor of Engineering (Honours) with First Class Honours in Computer Systems

- Courses: Artificial Intelligence and Machine Learning, Advanced Embedded Systems, Object-Oriented Programming, Software Quality Assurance, Hardware Software Systems Design, Microcomputers and Embedded Systems

UP International College

February 2020 - June 2020

- Graduated with Outstanding Achievement
- Specialised in Calculus, Physics, Statistic and Accounting

WORK EXPERIENCE

Spiritx

July 2024 - Sep 2024

Software Engineer Intern

- Engineered responsive web applications, contributing to both frontend and backend development
- Automated online job posting updates and website information updates, improving operational efficiency by 70%
- Utilized WordPress for website content modification and management.
- Conducted thorough unit testing and debugging, reducing post-release issues by 80%
- **Technical Skills:** Python, React, JavaScript, HTML, Jira, WordPress.
- **Soft Skills:** Continuous learning, Teamwork, Problem-solving.

Oceanic Brand Management Limited

July 2021 - February 2023

Software Developer Intern

- Developed and implemented software strategies for K3 cloud, Qingflow, Lark, and WeCom.
- Integrated APIs for seamless data exchange between company and third-party applications, improving data flow by 75%
- Debugged and resolved API issues, ensuring stable and reliable performance.
- Created comprehensive documentation, boosting team productivity and product usability by 90%
- **Technical Skills:** Qingflow, K3 cloud, Microsoft Office, APIs testing, Postman.
- **Soft Skills:** Teamwork, Time Management, Communication, Critical Thinking.

PROJECTS

University of Auckland

- Implement calibration and auto zero offset for accurate weight measurements.
- Develop HTTP data transmission to the backend.
- Optimize power usage for a battery-powered system.
- **Technical Skills:** C, Raspberry Pi Pico W, API Integration, Postman.
- **Soft Skills:** Report writing, Logical Thinking, Critical Thinking, Teamwork, Communication.

Android Mobile Application

May 2022 - July 2022

University of Auckland

- Co-developed a native Android app for product showcasing, enhancing user engagement.
- Designed intuitive UI/UX, improving user experience and app navigation.
- Managed project coordination using Git, ensuring smooth collaboration and version control.
- **Technical Skills:** Java, Android Studio, UX/UI Design, Git.
- **Soft Skills:** Presentation skills, Communication, Teamwork, Logical Thinking.

Handwritten Recognition Tool

March 2022 - May 2022

University of Auckland

- Collaborated with a peer on a project involving handwritten recognition tool development.
- Contributed to both AI design and GUI design aspects of the tool.
- Developed machine learning skills through project involvement.
- **Technical Skills:** Python, PyTorch, PyQt5 Python GUI, Git.
- **Soft Skills:** Time Management, Teamwork, Presentation skills, Report writing.

SKILLS

- **Programming Languages:** Python, Java, C, C#, JavaScript, HTML, CSS
- **Frameworks & Libraries:** React, .NET Core, PyTorch, PyQt5
- **Tools & Technologies:** Git, GitHub, VSCode, Postman, WordPress, Android Studio, Raspberry Pi
- **Soft Skills:** Continuous Learning, Problem-solving, Teamwork, Time Management, Critical Thinking, Communication

LANGUAGES

English Advanced proficiency

Mandarin Native proficiency

Cantonese Native proficiency
