

Tuan Khai DINH (Brian)

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SUMMARY OF QUALIFICATIONS

- Familiar with .NET Framework, developing applications across various operating systems
- Certifications in cloud management and systems administration
- Strong foundation in OOP web and software development concepts, including APIs
- Use Python and Jupyter Notebook for data analysis and visualisation
- Skilled in team building and seamless communication to meet project requirements

TECHNICAL SKILLS

Quick Learner, Collaborative, Attention to Detail, Problem Solver, Strong Work Ethic, Highly Adaptable, Agile and Creative Thinker, .

Programming: Html/CSS, Python, C#, .NET Framework, R, ReactJS, ASP.NET Core

Operating Systems: Windows, Linux, MacOS

Database: Microsoft SQL Server, SQLite

Cloud: Microsoft Azure, AWS

Tools: Microsoft 365, Visual Studio, Visual Studio Code, Jupyter Notebook, Git

RELEVANT COURSEWORK

Coursework Projects

Queensland University of Technology

- Elevator Control System

Developed low level C programs for an elevator simulation system, implementing inter-process communication using POSIX shared memory. Designed and tested robust modules adhering to MISRA-C safety standards for reliable message-passing between elevator components.

- Tonnetz Player - Capstone Project

Led technical development of a web-based music theory learning tool using React, Tone.js, and TailwindCSS. Designed and implemented interactive features such as chord visualisation, MIDI file upload, and a piano roll editor. Performed accessibility testing Jest and React Testing Library.

- Parallelising Digital Music Analysis Software

Accelerated an existing C++ audio processing tool by applying OpenMP-based multithreading and SIMD optimisations. Parallelised FFT and STFT computations to improve performance on Apple Silicon architecture, achieving measurable speedup and scalability.

- Machine Learning Project for Cake Image Classification & Trend Analysis

Trained and evaluated image classification models using TensorFlow and Keras to identify cake types from social media images. Conducted trend analysis with Python (Pandas, Seaborn) to correlate visual content with seasonal popularity and user engagement.

- Fundamentals of Data Science

Gained hands-on experience in data cleaning, visualisation, and exploratory analysis using R and Python. Completed assignments involved real-world datasets to identify trends, outliers, and patterns through effective use of libraries such as ggplot2, NumPy, and Scikit-learn

MS Intune & Entra ID Training Courses

Coursera & Udemy

Cloud & Network Administration

- Created and managed user accounts in MS Entra ID, applying appropriate access controls and group policies
- Integrated on-premise devices Active Directory with Entra ID
- Checked firewall settings and verify IP configurations

Software Basic Frontend & Backend Courses

Jung Talents

Frontend Development:

- Skills gained in modern web technologies including React, TypeScript, and CSS throughout the course
- Implemented responsive components, applied state management and designed best practices
- Developed practical skills in enhanced quality assurance and advanced testing

Backend Development:

- Skills gained in building backend systems using C#, .NET Framework, and .NET Core
- Implemented secure authentication and authorisation mechanisms in ASP.NET Core
- Applied design patterns and UML-based modelling to create maintainable backend architectures

EDUCATION

QUEENSLAND UNIVERSITY OF TECHNOLOGY

Brisbane, QLD

Bachelor of Information of Technology (Computer Science)

Feb 2022- Dec 2024

GPA: 4.882/7.00