

Khoi Nguyen Mai

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khoinguyen.github.io/mkn-react-portfolio | linkedin.com/in/khoi-nguyen-mai | github.com/khoinguyen

Education

University of Adelaide , BS in Computer Science	July 2023 – July 2026
<ul style="list-style-type: none">Current GPA: 6.1/7Coursework: Object Oriented Programming, Web & Database Computing, Algorithm & Data Structure Analysis, Operating Systems, Artificial Intelligence	

Experience

Software Engineer , Creart Digital Media – Adelaide, SA	Oct 2024 – Mar 2025
<ul style="list-style-type: none">Increased audience engagement for Mirror XR show at Adelaide Fringe 2025 by leading development of Mira, an AI StreamerIntegrated MeloTTS, FunASR, and Llama (LLM) to enable natural language processing, speech synthesis, and emotion-driven responsesDesigned and implemented key backend and AI components to enhance user engagement in an immersive AR/VR environment	
Research & Development Intern , Creart Digital Media – Adelaide, SA	Jul 2024 – Sep 2024
<ul style="list-style-type: none">Built Clevart, an AI-powered chatbot reducing client inquiry resolution time by 90%Developed scalable database architecture and Firebase cloud storage for user data and chat historyImplemented and optimised RESTful APIs in Spring Boot, enabling real-time data sync and efficient retrievalCollaborated in Agile sprints using GitHub, Jira, and Confluence for version control and task management	
Head of Programming , GreenAms Robotics Team 6520 – Hanoi, Vietnam	Aug 2021 – Aug 2022
<ul style="list-style-type: none">Selected as one of top 10 members for the FRC (FIRST® Robotics Competition) 2021 teamProgrammed object identification and automatic aiming system for competition robotMentored and trained team members with WPILib for FRC 2022 & 2023 competitionsDesigned and maintained team website, organised team events and initiatives	

Projects

Look & Tell - Sign Language Translation App	Aug 2021 – Mar 2022
<ul style="list-style-type: none">Collected a dataset of 1,000+ Vietnamese Sign Language (VSL) words and trained a deep learning model, achieving 94.6% accuracyDeveloped Look & Tell, a mobile app for real-time VSL translationPresented at Vietnam National Science & Engineering Fair (ViSEF 2021), awarded Third Prize (System Software)Tech stack: Python, TensorFlow, Keras, OpenCV, MediaPipe, Java, Android Studio	
Food Management App	Sep 2023 – Oct 2023
<ul style="list-style-type: none">Built a Qt-based application for meal planning, ingredient tracking, and automated shopping listsTech stack: C++, SQLite, Qt	

Awards

<ul style="list-style-type: none">Engineering Design Award – FIRST® Robotics Competition 2021 Game Design Challenge with GreenAms 6520 Robotics TeamFirst Prize – Science and Engineering municipal competition 2021Third Prize – Vietnam Science and Engineering Fair – ViSEF 2021 Look & Tell app, ranked top 3 of 144 projects / 273 students	
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Technical Skills

Skills: Machine Learning, Computer Vision, Application Development, Full-stack Web Development

Languages: C, C++, Python, Java, HTML, CSS, JavaScript, R

Technologies: Visual Studio Code, Firebase, TensorFlow, Keras, SQL, OpenCV, React, Node.js, Spring Boot, Android Studio, Qt, Git