

# Khoi Nguyen Mai

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[khoinguyen.github.io/mkn-react-portfolio](https://khoinguyen.github.io/mkn-react-portfolio) | [linkedin.com/in/khoi-nguyen-mai](https://linkedin.com/in/khoi-nguyen-mai) | [github.com/khoinguyen](https://github.com/khoinguyen)

## Education

**University of Adelaide**, BS in Computer Science July 2023 – July 2026

- **Current GPA:** 6.1/7
- **Coursework:** 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

- Increased audience engagement for Mirror XR show at Adelaide Fringe 2025 by leading development of Mira, an AI Streamer
- Integrated MeloTTS, FunASR, and Llama (LLM) to enable natural language processing, speech synthesis, and emotion-driven responses
- Designed 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

- 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 history
- Implemented and optimised RESTful APIs in Spring Boot, enabling real-time data sync and efficient retrieval
- Collaborated 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

- Selected as one of top 10 members for the FRC (FIRST® Robotics Competition) 2021 team
- Programmed object identification and automatic aiming system for competition robot
- Mentored and trained team members with WPILib for FRC 2022 & 2023 competitions
- Designed and maintained team website, organised team events and initiatives

## Projects

**Look & Tell - Sign Language Translation App** Aug 2021 – Mar 2022

- Collected a dataset of 1,000+ Vietnamese Sign Language (VSL) words and trained a deep learning model, achieving 94.6% accuracy
- Developed Look & Tell, a mobile app for real-time VSL translation
- Presented 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

- Built a Qt-based application for meal planning, ingredient tracking, and automated shopping lists
- Tech stack: C++, SQLite, Qt

## Awards

- **Engineering Design Award** – FIRST® Robotics Competition 2021 Game Design Challenge with GreenAms 6520 Robotics Team
- **First Prize** – Science and Engineering municipal competition 2021
- **Third Prize** – Vietnam Science and Engineering Fair – ViSEF 2021 Look & Tell app, ranked top 3 of 144 projects / 273 students

## 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